

Question 1 [25 marks]

- 0: $\text{primes}(4) = 2^2$
- 1: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(9) = \underline{\hspace{2cm}}$

Question 2 [25 marks]

- 0: $\text{primes}(4) = 2^2$
- 1: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(3) = \underline{\hspace{2cm}}$

Question 3 [25 marks]

- 0: $\text{primes}(10) = 2^1 \times 5^1$
- 1: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(5) = \underline{\hspace{2cm}}$

Question 4 [25 marks]

- 0: $\text{primes}(9) = 3^2$
- 1: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(7) = \underline{\hspace{2cm}}$

Question 5 [25 marks]

- 0: $\text{primes}(7) = 7^1$
- 1: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(8) = \underline{\hspace{2cm}}$

Question 6 [25 marks]

- 0: $\text{primes}(3) = 3^1$
- 1: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(3) = \underline{\hspace{2cm}}$

Question 7 [25 marks]

- 0: $\text{primes}(5) = 5^1$
- 1: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(6) = \underline{\hspace{2cm}}$

Question 8 [25 marks]

- 0: $\text{primes}(6) = 2^1 \times 3^1$
- 1: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(3) = \underline{\hspace{2cm}}$

Question 9 [25 marks]

- 0: $\text{primes}(17) = 17^1$
- 1: $\text{primes}(92) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(74) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(78) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(69) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(99) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(84) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(14) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(62) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(31) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(24) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(23) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(62) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(94) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(73) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(84) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(26) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(72) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(88) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(71) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(56) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(92) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(21) = \underline{\hspace{2cm}}$

Question 10 [25 marks]

- 0: $\text{primes}(14) = 2^1 \times 7^1$
- 1: $\text{primes}(57) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(26) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(22) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(21) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(85) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(30) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(68) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(58) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(79) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(18) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(54) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(27) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(52) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(58) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(61) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(51) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(53) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(72) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(21) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(25) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(17) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(13) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(16) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(54) = \underline{\hspace{2cm}}$

Question 11 [25 marks]

- 0: $\text{primes}(11) = 11^1$
- 1: $\text{primes}(79) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(67) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(78) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(86) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(25) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(17) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(18) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(71) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(18) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(45) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(34) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(85) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(33) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(51) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(90) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(18) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(88) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(85) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(29) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(44) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(53) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(32) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(69) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(83) = \underline{\hspace{2cm}}$

Question 12 [25 marks]

- 0: $\text{primes}(32) = 2^5$
- 1: $\text{primes}(20) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(16) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(86) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(62) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(56) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(62) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(23) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(3) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(45) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(86) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(95) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(6) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(64) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(25) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(35) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(66) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(17) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(56) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(87) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(35) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(98) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(71) = \underline{\hspace{2cm}}$

Question 13 [25 marks]

- 0: $\text{primes}(83) = 83^1$
- 1: $\text{primes}(100) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(58) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(75) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(51) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(35) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(67) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(57) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(87) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(33) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(56) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(23) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(69) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(48) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(72) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(73) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(90) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(54) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(80) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(64) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(65) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(60) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(89) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(32) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(29) = \underline{\hspace{2cm}}$

Question 14 [25 marks]

- 0: $\text{primes}(9) = 3^2$
- 1: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(82) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(48) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(8) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(98) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(96) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(46) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(34) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(63) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(15) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(57) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(69) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(91) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(85) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(7) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(5) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(42) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(99) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(19) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(30) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(71) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(88) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(40) = \underline{\hspace{2cm}}$

Question 15 [25 marks]

- 0: $\text{primes}(72) = 2^3 \times 3^2$
- 1: $\text{primes}(85) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(91) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(48) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(70) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(62) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(18) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(97) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(13) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(48) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(19) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(83) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(60) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(69) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(50) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(9) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(24) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(86) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(56) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(69) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(95) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(53) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(60) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(90) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(24) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(93) = \underline{\hspace{2cm}}$

Question 16 [25 marks]

- 0: $\text{primes}(86) = 2^1 \times 43^1$
- 1: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(15) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(55) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(19) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(77) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(31) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(83) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(62) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(33) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(12) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(51) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(4) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(2) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(88) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(19) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(100) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(50) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(33) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(88) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(99) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(93) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(10) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(9) = \underline{\hspace{2cm}}$

Question 17 [25 marks]

- 0: $\text{primes}(167) = 167^1$
- 1: $\text{primes}(143) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(111) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(111) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(180) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(179) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(166) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(134) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(111) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(153) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(158) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(119) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(138) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(129) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(122) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(140) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(125) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(168) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(115) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(110) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(167) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(127) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(107) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(131) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(127) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(190) = \underline{\hspace{2cm}}$

Question 18 [25 marks]

- 0: $\text{primes}(157) = 157^1$
- 1: $\text{primes}(129) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(118) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(189) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(162) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(120) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(105) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(102) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(170) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(126) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(116) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(141) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(196) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(196) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(196) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(132) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(185) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(112) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(146) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(176) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(174) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(135) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(177) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(129) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(154) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(119) = \underline{\hspace{2cm}}$

Question 19 [25 marks]

- 0: $\text{primes}(158) = 2^1 \times 79^1$
 1: $\text{primes}(158) = \underline{\hspace{2cm}}$
 2: $\text{primes}(165) = \underline{\hspace{2cm}}$
 3: $\text{primes}(192) = \underline{\hspace{2cm}}$
 4: $\text{primes}(192) = \underline{\hspace{2cm}}$
 5: $\text{primes}(176) = \underline{\hspace{2cm}}$
 6: $\text{primes}(101) = \underline{\hspace{2cm}}$
 7: $\text{primes}(147) = \underline{\hspace{2cm}}$
 8: $\text{primes}(197) = \underline{\hspace{2cm}}$
 9: $\text{primes}(164) = \underline{\hspace{2cm}}$
 10: $\text{primes}(191) = \underline{\hspace{2cm}}$
 11: $\text{primes}(105) = \underline{\hspace{2cm}}$
 12: $\text{primes}(175) = \underline{\hspace{2cm}}$
 13: $\text{primes}(138) = \underline{\hspace{2cm}}$
 14: $\text{primes}(100) = \underline{\hspace{2cm}}$
 15: $\text{primes}(131) = \underline{\hspace{2cm}}$
 16: $\text{primes}(108) = \underline{\hspace{2cm}}$
 17: $\text{primes}(190) = \underline{\hspace{2cm}}$
 18: $\text{primes}(110) = \underline{\hspace{2cm}}$
 19: $\text{primes}(114) = \underline{\hspace{2cm}}$
 20: $\text{primes}(175) = \underline{\hspace{2cm}}$
 21: $\text{primes}(115) = \underline{\hspace{2cm}}$
 22: $\text{primes}(158) = \underline{\hspace{2cm}}$
 23: $\text{primes}(106) = \underline{\hspace{2cm}}$
 24: $\text{primes}(126) = \underline{\hspace{2cm}}$
 25: $\text{primes}(149) = \underline{\hspace{2cm}}$

Question 20 [25 marks]

- 0: $\text{primes}(154) = 2^1 \times 7^1 \times 11^1$
 1: $\text{primes}(107) = \underline{\hspace{2cm}}$
 2: $\text{primes}(117) = \underline{\hspace{2cm}}$
 3: $\text{primes}(165) = \underline{\hspace{2cm}}$
 4: $\text{primes}(199) = \underline{\hspace{2cm}}$
 5: $\text{primes}(123) = \underline{\hspace{2cm}}$
 6: $\text{primes}(112) = \underline{\hspace{2cm}}$
 7: $\text{primes}(170) = \underline{\hspace{2cm}}$
 8: $\text{primes}(104) = \underline{\hspace{2cm}}$
 9: $\text{primes}(107) = \underline{\hspace{2cm}}$
 10: $\text{primes}(140) = \underline{\hspace{2cm}}$
 11: $\text{primes}(169) = \underline{\hspace{2cm}}$
 12: $\text{primes}(120) = \underline{\hspace{2cm}}$
 13: $\text{primes}(193) = \underline{\hspace{2cm}}$
 14: $\text{primes}(144) = \underline{\hspace{2cm}}$
 15: $\text{primes}(162) = \underline{\hspace{2cm}}$
 16: $\text{primes}(145) = \underline{\hspace{2cm}}$
 17: $\text{primes}(122) = \underline{\hspace{2cm}}$
 18: $\text{primes}(182) = \underline{\hspace{2cm}}$
 19: $\text{primes}(181) = \underline{\hspace{2cm}}$
 20: $\text{primes}(149) = \underline{\hspace{2cm}}$
 21: $\text{primes}(153) = \underline{\hspace{2cm}}$
 22: $\text{primes}(155) = \underline{\hspace{2cm}}$
 23: $\text{primes}(131) = \underline{\hspace{2cm}}$
 24: $\text{primes}(142) = \underline{\hspace{2cm}}$
 25: $\text{primes}(109) = \underline{\hspace{2cm}}$

Question 21 [25 marks]

0: $\text{primes}(165) = 3^1 \times 5^1 \times 11^1$

1: $\text{primes}(190) = \underline{\hspace{2cm}}$

2: $\text{primes}(186) = \underline{\hspace{2cm}}$

3: $\text{primes}(148) = \underline{\hspace{2cm}}$

4: $\text{primes}(167) = \underline{\hspace{2cm}}$

5: $\text{primes}(170) = \underline{\hspace{2cm}}$

6: $\text{primes}(197) = \underline{\hspace{2cm}}$

7: $\text{primes}(135) = \underline{\hspace{2cm}}$

8: $\text{primes}(178) = \underline{\hspace{2cm}}$

9: $\text{primes}(183) = \underline{\hspace{2cm}}$

10: $\text{primes}(187) = \underline{\hspace{2cm}}$

11: $\text{primes}(148) = \underline{\hspace{2cm}}$

12: $\text{primes}(177) = \underline{\hspace{2cm}}$

13: $\text{primes}(187) = \underline{\hspace{2cm}}$

14: $\text{primes}(100) = \underline{\hspace{2cm}}$

15: $\text{primes}(151) = \underline{\hspace{2cm}}$

16: $\text{primes}(125) = \underline{\hspace{2cm}}$

17: $\text{primes}(137) = \underline{\hspace{2cm}}$

18: $\text{primes}(115) = \underline{\hspace{2cm}}$

19: $\text{primes}(159) = \underline{\hspace{2cm}}$

20: $\text{primes}(183) = \underline{\hspace{2cm}}$

21: $\text{primes}(104) = \underline{\hspace{2cm}}$

22: $\text{primes}(163) = \underline{\hspace{2cm}}$

23: $\text{primes}(120) = \underline{\hspace{2cm}}$

24: $\text{primes}(159) = \underline{\hspace{2cm}}$

25: $\text{primes}(163) = \underline{\hspace{2cm}}$

Question 22 [25 marks]

0: $\text{primes}(121) = 11^2$

1: $\text{primes}(186) = \underline{\hspace{2cm}}$

2: $\text{primes}(102) = \underline{\hspace{2cm}}$

3: $\text{primes}(105) = \underline{\hspace{2cm}}$

4: $\text{primes}(200) = \underline{\hspace{2cm}}$

5: $\text{primes}(144) = \underline{\hspace{2cm}}$

6: $\text{primes}(180) = \underline{\hspace{2cm}}$

7: $\text{primes}(106) = \underline{\hspace{2cm}}$

8: $\text{primes}(188) = \underline{\hspace{2cm}}$

9: $\text{primes}(137) = \underline{\hspace{2cm}}$

10: $\text{primes}(111) = \underline{\hspace{2cm}}$

11: $\text{primes}(165) = \underline{\hspace{2cm}}$

12: $\text{primes}(116) = \underline{\hspace{2cm}}$

13: $\text{primes}(156) = \underline{\hspace{2cm}}$

14: $\text{primes}(139) = \underline{\hspace{2cm}}$

15: $\text{primes}(197) = \underline{\hspace{2cm}}$

16: $\text{primes}(162) = \underline{\hspace{2cm}}$

17: $\text{primes}(200) = \underline{\hspace{2cm}}$

18: $\text{primes}(110) = \underline{\hspace{2cm}}$

19: $\text{primes}(190) = \underline{\hspace{2cm}}$

20: $\text{primes}(142) = \underline{\hspace{2cm}}$

21: $\text{primes}(194) = \underline{\hspace{2cm}}$

22: $\text{primes}(102) = \underline{\hspace{2cm}}$

23: $\text{primes}(128) = \underline{\hspace{2cm}}$

24: $\text{primes}(126) = \underline{\hspace{2cm}}$

25: $\text{primes}(186) = \underline{\hspace{2cm}}$

Question 23 [25 marks]

- 0: $\text{primes}(167) = 167^1$
- 1: $\text{primes}(195) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(186) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(186) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(101) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(126) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(129) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(151) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(136) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(151) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(138) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(168) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(186) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(155) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(196) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(200) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(164) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(137) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(133) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(166) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(188) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(118) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(148) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(160) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(129) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(178) = \underline{\hspace{2cm}}$

Question 24 [25 marks]

- 0: $\text{primes}(200) = 2^3 \times 5^2$
- 1: $\text{primes}(127) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(141) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(195) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(129) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(124) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(124) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(106) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(178) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(156) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(108) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(115) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(153) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(156) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(156) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(119) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(120) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(171) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(109) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(114) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(104) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(175) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(124) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(164) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(183) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(188) = \underline{\hspace{2cm}}$

Question 25 [25 marks]

- 0: $\text{primes}(265) = 5^1 \times 53^1$
 1: $\text{primes}(367) = \underline{\hspace{2cm}}$
 2: $\text{primes}(331) = \underline{\hspace{2cm}}$
 3: $\text{primes}(438) = \underline{\hspace{2cm}}$
 4: $\text{primes}(367) = \underline{\hspace{2cm}}$
 5: $\text{primes}(245) = \underline{\hspace{2cm}}$
 6: $\text{primes}(297) = \underline{\hspace{2cm}}$
 7: $\text{primes}(232) = \underline{\hspace{2cm}}$
 8: $\text{primes}(437) = \underline{\hspace{2cm}}$
 9: $\text{primes}(334) = \underline{\hspace{2cm}}$
 10: $\text{primes}(303) = \underline{\hspace{2cm}}$
 11: $\text{primes}(262) = \underline{\hspace{2cm}}$
 12: $\text{primes}(317) = \underline{\hspace{2cm}}$
 13: $\text{primes}(427) = \underline{\hspace{2cm}}$
 14: $\text{primes}(455) = \underline{\hspace{2cm}}$
 15: $\text{primes}(378) = \underline{\hspace{2cm}}$
 16: $\text{primes}(430) = \underline{\hspace{2cm}}$
 17: $\text{primes}(416) = \underline{\hspace{2cm}}$
 18: $\text{primes}(397) = \underline{\hspace{2cm}}$
 19: $\text{primes}(432) = \underline{\hspace{2cm}}$
 20: $\text{primes}(340) = \underline{\hspace{2cm}}$
 21: $\text{primes}(314) = \underline{\hspace{2cm}}$
 22: $\text{primes}(341) = \underline{\hspace{2cm}}$
 23: $\text{primes}(369) = \underline{\hspace{2cm}}$
 24: $\text{primes}(500) = \underline{\hspace{2cm}}$
 25: $\text{primes}(227) = \underline{\hspace{2cm}}$

Question 26 [25 marks]

- 0: $\text{primes}(498) = 2^1 \times 3^1 \times 83^1$
 1: $\text{primes}(388) = \underline{\hspace{2cm}}$
 2: $\text{primes}(472) = \underline{\hspace{2cm}}$
 3: $\text{primes}(245) = \underline{\hspace{2cm}}$
 4: $\text{primes}(291) = \underline{\hspace{2cm}}$
 5: $\text{primes}(206) = \underline{\hspace{2cm}}$
 6: $\text{primes}(265) = \underline{\hspace{2cm}}$
 7: $\text{primes}(287) = \underline{\hspace{2cm}}$
 8: $\text{primes}(472) = \underline{\hspace{2cm}}$
 9: $\text{primes}(459) = \underline{\hspace{2cm}}$
 10: $\text{primes}(349) = \underline{\hspace{2cm}}$
 11: $\text{primes}(335) = \underline{\hspace{2cm}}$
 12: $\text{primes}(440) = \underline{\hspace{2cm}}$
 13: $\text{primes}(385) = \underline{\hspace{2cm}}$
 14: $\text{primes}(252) = \underline{\hspace{2cm}}$
 15: $\text{primes}(365) = \underline{\hspace{2cm}}$
 16: $\text{primes}(334) = \underline{\hspace{2cm}}$
 17: $\text{primes}(487) = \underline{\hspace{2cm}}$
 18: $\text{primes}(340) = \underline{\hspace{2cm}}$
 19: $\text{primes}(462) = \underline{\hspace{2cm}}$
 20: $\text{primes}(482) = \underline{\hspace{2cm}}$
 21: $\text{primes}(345) = \underline{\hspace{2cm}}$
 22: $\text{primes}(223) = \underline{\hspace{2cm}}$
 23: $\text{primes}(242) = \underline{\hspace{2cm}}$
 24: $\text{primes}(220) = \underline{\hspace{2cm}}$
 25: $\text{primes}(491) = \underline{\hspace{2cm}}$

Question 27 [25 marks]

- 0: $\text{primes}(354) = 2^1 \times 3^1 \times 59^1$
- 1: $\text{primes}(365) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(339) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(456) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(500) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(246) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(265) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(280) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(272) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(336) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(345) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(322) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(434) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(372) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(343) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(439) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(242) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(492) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(215) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(271) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(351) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(344) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(211) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(466) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(284) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(422) = \underline{\hspace{2cm}}$

Question 28 [25 marks]

- 0: $\text{primes}(372) = 2^2 \times 3^1 \times 31^1$
- 1: $\text{primes}(293) = \underline{\hspace{2cm}}$
- 2: $\text{primes}(376) = \underline{\hspace{2cm}}$
- 3: $\text{primes}(298) = \underline{\hspace{2cm}}$
- 4: $\text{primes}(302) = \underline{\hspace{2cm}}$
- 5: $\text{primes}(294) = \underline{\hspace{2cm}}$
- 6: $\text{primes}(424) = \underline{\hspace{2cm}}$
- 7: $\text{primes}(415) = \underline{\hspace{2cm}}$
- 8: $\text{primes}(410) = \underline{\hspace{2cm}}$
- 9: $\text{primes}(252) = \underline{\hspace{2cm}}$
- 10: $\text{primes}(373) = \underline{\hspace{2cm}}$
- 11: $\text{primes}(221) = \underline{\hspace{2cm}}$
- 12: $\text{primes}(357) = \underline{\hspace{2cm}}$
- 13: $\text{primes}(205) = \underline{\hspace{2cm}}$
- 14: $\text{primes}(323) = \underline{\hspace{2cm}}$
- 15: $\text{primes}(256) = \underline{\hspace{2cm}}$
- 16: $\text{primes}(267) = \underline{\hspace{2cm}}$
- 17: $\text{primes}(383) = \underline{\hspace{2cm}}$
- 18: $\text{primes}(429) = \underline{\hspace{2cm}}$
- 19: $\text{primes}(410) = \underline{\hspace{2cm}}$
- 20: $\text{primes}(396) = \underline{\hspace{2cm}}$
- 21: $\text{primes}(205) = \underline{\hspace{2cm}}$
- 22: $\text{primes}(455) = \underline{\hspace{2cm}}$
- 23: $\text{primes}(448) = \underline{\hspace{2cm}}$
- 24: $\text{primes}(404) = \underline{\hspace{2cm}}$
- 25: $\text{primes}(429) = \underline{\hspace{2cm}}$

Question 29 [25 marks]

0: $\text{primes}(357) = 3^1 \times 7^1 \times 17^1$

1: $\text{primes}(343) = \underline{\hspace{2cm}}$

2: $\text{primes}(395) = \underline{\hspace{2cm}}$

3: $\text{primes}(397) = \underline{\hspace{2cm}}$

4: $\text{primes}(211) = \underline{\hspace{2cm}}$

5: $\text{primes}(212) = \underline{\hspace{2cm}}$

6: $\text{primes}(212) = \underline{\hspace{2cm}}$

7: $\text{primes}(273) = \underline{\hspace{2cm}}$

8: $\text{primes}(260) = \underline{\hspace{2cm}}$

9: $\text{primes}(206) = \underline{\hspace{2cm}}$

10: $\text{primes}(227) = \underline{\hspace{2cm}}$

11: $\text{primes}(422) = \underline{\hspace{2cm}}$

12: $\text{primes}(274) = \underline{\hspace{2cm}}$

13: $\text{primes}(473) = \underline{\hspace{2cm}}$

14: $\text{primes}(314) = \underline{\hspace{2cm}}$

15: $\text{primes}(267) = \underline{\hspace{2cm}}$

16: $\text{primes}(481) = \underline{\hspace{2cm}}$

17: $\text{primes}(460) = \underline{\hspace{2cm}}$

18: $\text{primes}(421) = \underline{\hspace{2cm}}$

19: $\text{primes}(320) = \underline{\hspace{2cm}}$

20: $\text{primes}(391) = \underline{\hspace{2cm}}$

21: $\text{primes}(214) = \underline{\hspace{2cm}}$

22: $\text{primes}(227) = \underline{\hspace{2cm}}$

23: $\text{primes}(475) = \underline{\hspace{2cm}}$

24: $\text{primes}(303) = \underline{\hspace{2cm}}$

25: $\text{primes}(292) = \underline{\hspace{2cm}}$

Question 30 [25 marks]

0: $\text{primes}(374) = 2^1 \times 11^1 \times 17^1$

1: $\text{primes}(432) = \underline{\hspace{2cm}}$

2: $\text{primes}(460) = \underline{\hspace{2cm}}$

3: $\text{primes}(376) = \underline{\hspace{2cm}}$

4: $\text{primes}(203) = \underline{\hspace{2cm}}$

5: $\text{primes}(275) = \underline{\hspace{2cm}}$

6: $\text{primes}(448) = \underline{\hspace{2cm}}$

7: $\text{primes}(306) = \underline{\hspace{2cm}}$

8: $\text{primes}(435) = \underline{\hspace{2cm}}$

9: $\text{primes}(339) = \underline{\hspace{2cm}}$

10: $\text{primes}(459) = \underline{\hspace{2cm}}$

11: $\text{primes}(497) = \underline{\hspace{2cm}}$

12: $\text{primes}(388) = \underline{\hspace{2cm}}$

13: $\text{primes}(400) = \underline{\hspace{2cm}}$

14: $\text{primes}(343) = \underline{\hspace{2cm}}$

15: $\text{primes}(229) = \underline{\hspace{2cm}}$

16: $\text{primes}(480) = \underline{\hspace{2cm}}$

17: $\text{primes}(432) = \underline{\hspace{2cm}}$

18: $\text{primes}(348) = \underline{\hspace{2cm}}$

19: $\text{primes}(485) = \underline{\hspace{2cm}}$

20: $\text{primes}(306) = \underline{\hspace{2cm}}$

21: $\text{primes}(332) = \underline{\hspace{2cm}}$

22: $\text{primes}(401) = \underline{\hspace{2cm}}$

23: $\text{primes}(283) = \underline{\hspace{2cm}}$

24: $\text{primes}(296) = \underline{\hspace{2cm}}$

25: $\text{primes}(466) = \underline{\hspace{2cm}}$

Question 31 [25 marks]

0: $\text{primes}(420) = 2^2 \times 3^1 \times 5^1 \times 7^1$

1: $\text{primes}(393) = \underline{\hspace{2cm}}$

2: $\text{primes}(490) = \underline{\hspace{2cm}}$

3: $\text{primes}(367) = \underline{\hspace{2cm}}$

4: $\text{primes}(213) = \underline{\hspace{2cm}}$

5: $\text{primes}(292) = \underline{\hspace{2cm}}$

6: $\text{primes}(422) = \underline{\hspace{2cm}}$

7: $\text{primes}(263) = \underline{\hspace{2cm}}$

8: $\text{primes}(440) = \underline{\hspace{2cm}}$

9: $\text{primes}(499) = \underline{\hspace{2cm}}$

10: $\text{primes}(450) = \underline{\hspace{2cm}}$

11: $\text{primes}(499) = \underline{\hspace{2cm}}$

12: $\text{primes}(476) = \underline{\hspace{2cm}}$

13: $\text{primes}(435) = \underline{\hspace{2cm}}$

14: $\text{primes}(375) = \underline{\hspace{2cm}}$

15: $\text{primes}(487) = \underline{\hspace{2cm}}$

16: $\text{primes}(438) = \underline{\hspace{2cm}}$

17: $\text{primes}(355) = \underline{\hspace{2cm}}$

18: $\text{primes}(284) = \underline{\hspace{2cm}}$

19: $\text{primes}(331) = \underline{\hspace{2cm}}$

20: $\text{primes}(229) = \underline{\hspace{2cm}}$

21: $\text{primes}(410) = \underline{\hspace{2cm}}$

22: $\text{primes}(406) = \underline{\hspace{2cm}}$

23: $\text{primes}(471) = \underline{\hspace{2cm}}$

24: $\text{primes}(455) = \underline{\hspace{2cm}}$

25: $\text{primes}(358) = \underline{\hspace{2cm}}$

Question 32 [25 marks]

0: $\text{primes}(213) = 3^1 \times 71^1$

1: $\text{primes}(314) = \underline{\hspace{2cm}}$

2: $\text{primes}(471) = \underline{\hspace{2cm}}$

3: $\text{primes}(419) = \underline{\hspace{2cm}}$

4: $\text{primes}(478) = \underline{\hspace{2cm}}$

5: $\text{primes}(208) = \underline{\hspace{2cm}}$

6: $\text{primes}(235) = \underline{\hspace{2cm}}$

7: $\text{primes}(378) = \underline{\hspace{2cm}}$

8: $\text{primes}(356) = \underline{\hspace{2cm}}$

9: $\text{primes}(453) = \underline{\hspace{2cm}}$

10: $\text{primes}(411) = \underline{\hspace{2cm}}$

11: $\text{primes}(414) = \underline{\hspace{2cm}}$

12: $\text{primes}(487) = \underline{\hspace{2cm}}$

13: $\text{primes}(330) = \underline{\hspace{2cm}}$

14: $\text{primes}(275) = \underline{\hspace{2cm}}$

15: $\text{primes}(397) = \underline{\hspace{2cm}}$

16: $\text{primes}(377) = \underline{\hspace{2cm}}$

17: $\text{primes}(459) = \underline{\hspace{2cm}}$

18: $\text{primes}(434) = \underline{\hspace{2cm}}$

19: $\text{primes}(389) = \underline{\hspace{2cm}}$

20: $\text{primes}(437) = \underline{\hspace{2cm}}$

21: $\text{primes}(351) = \underline{\hspace{2cm}}$

22: $\text{primes}(234) = \underline{\hspace{2cm}}$

23: $\text{primes}(338) = \underline{\hspace{2cm}}$

24: $\text{primes}(245) = \underline{\hspace{2cm}}$

25: $\text{primes}(346) = \underline{\hspace{2cm}}$