

Answers to Cumulative Quiz

1. C
2. D
3. C
4. D
5. A
6. B
7. A
8. C
9. D
10. D

11. C
12. B
13. A
14. B
15. B
16. D
17. B
18. B
19. B
20. A

21. C
22. A
23. C
24. D
25. D
26. D
27. A
28. B
29. C
30. B

31. D
32. A
33. C
34. A
35. B
36. D
37. A
38. A
39. B
40. D

41. A
42. B
43. B
44. A
45. B
46. B
47. C
48. B
49. D
50. B

51. B
52. D
53. C
54. C
55. D
56. D
57. B
58. A
59. D
60. C

61. A
62. A
63. C
64. B
65. D
66. B
67. D
68. B
69. B
70. B

SHORT ANSWER:

71. a) 22 cm^2 b) 20 cm^2 c) 22 cm^2

72. 560 cm^2

73. $5^2, 2^5, 4^3, 4^4$

74. a) $3^2 + 4(5 - 2^3) = 13$ b) $(3^2 + 4)5 - 2^2 = 61$

75. 723

76. -125

77. a) = b) < c) =

78. Greater than 0

79. $-43/9$

80. -11.03

81. $-12 \frac{5}{6}$

82. i, ii and iv are less than 0

83. a) $-\frac{3}{4} \div \frac{2}{3}$ b) $\frac{3}{4} \times -\frac{3}{2}$ and $-\frac{3}{4} \times \frac{3}{2}$

84. 3

85. a)

n	1	2	3	4
f	25	29	33	37

b) $21 + 4n$

86. A is $x - 2y = 0$ B is $x = 2$ C is $y = -10$

87. $y = -2.75$ $x = 2$ (an estimation)

88. a) 19.5 ft/s b) 8 m/s (estimation)

89. i and iv are polynomials

90. A is v / B is vi / C is iv / D is i / E is ii / F is iii

91. $5x^2 + 3x^2 - 2x - 3x + 5 + 3$

92. $10x - 7$

93. $-7x^2 - 2x + 9$

94. $-x$

95. $-\frac{28x^2 + 8x}{4}$

96. $x = -8$

$$97. \frac{44}{x} = -11, \quad x = -4$$

$$98. \text{ ADD } 14$$

$$99. f < 5$$

$$100. a) m = \text{amount of money} \quad b) m$$

$$101. w > -1.5$$

$$102. x < 1.5$$

$$103. DE \text{ IS DIAMETER}$$

$$104. x = 61^\circ$$

$$105. c = 34^\circ, \quad d = 112^\circ$$

$$106. a) 4^2 + 3^2 + 2^2 + 1^2 = 30$$

$$b) 5^2 + 4^2 + 3^2 + 2^2 + 1^2 = 55$$

$$c) 10^2 + 9^2 + 8^2 + 7^2 + 6^2 + 5^2 + 4^2 + 3^2 + 2^2 + 1^2 = 385$$

$$107. 1024 = 2^3 \cdot 2^3 \cdot 4^2 / 4^2 \cdot 4^2 \cdot 2^2$$

$$729 = 9^3 / 9^2 \cdot 3^2 / 3^2 \cdot 3^2 \cdot 3^2 / 3^6$$

$$108. 32 = 2^3 + 2^3 + 2^3 + 2^3$$

$$33 = 1^2 + 2^5$$

$$34 = 1^2 + 1^2 + 2^5$$

$$35 = 3^2 + 3^2 + 3^2 + 2^2 + 2^2$$

$$36 = 3^2 + 3^2 + 3^2 + 3^2$$

$$37 = 6^2 + 1^2$$

$$38 = 6^2 + 1^2 + 1^2$$

$$39 = 6^2 + 1^2 + 1^2 + 1^2$$

$$109. \quad \begin{array}{l} 83 = 512 \\ 44 = 256 \end{array} \rightarrow \frac{2^9}{2^8} = 2$$

110. a) i) \$ 17.50 for 1 day rent
ii) \$ 47.50 for 13 days rent
b) paid for 8 days

$$\begin{aligned} 111. \quad 2p + 10 + 3p - 6 &= 2p + 12 \\ 5p + 4 &= 2p + 12 \\ 3p &= 8 \\ p &= \frac{8}{3} \end{aligned}$$

$$\begin{aligned} 112. \quad x &= 120 \quad (360 - (133 + 107)) \\ y &= \frac{1}{2} \cdot 120 = 60 \\ z &= \frac{60}{2} = 30 \end{aligned}$$

(The triangle is an isosceles)