Section-A

(1) (d) non-terminating non-repeating
(2) (d) always an irrational no.
(3) (a) $\frac{\sqrt{7}+2}{3}$
(4) (c) $\frac{133}{900}$
(5) (d) $\frac{67}{190}$
(6) (b) 20°
(7) (b) 108°
(8) (b) 30°
(9) (b) 40°.
(10) (a) 70°, 45°.
(11) (a) 48°, 60°, 72°.
(12) (a) 90°.
(13) (a) BC : PQ
(14) (b) ΔSA.
(15) (a) SAS
(16) (d) an equilateral Δ.
(17) (d) all the 3 altitudes are equal.
(18) (c) 60°
(19) (a) 0.
(20) d) II & IV quadrants

SECTION-B

(21) (b) 2nd quadrant.
(22) (a) on the negative direction of the x-axis.
(23) (b) (0, 4)
(24) (d) y-coordinate = $5a - 5$
(25) (b) 13 cm.
(26) (a) $\sqrt{32}$ cm.

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27. (c) 3:4
28. (a) 1322 cm²
29. (b) Rs. 2.16
30. (c) 24 cm
31. (a) $a \neq 0, b \neq 0$.
32. (c) infinitely many solutions
33. (a) natural nos.
34. (a) 4
35. (d) (0, 2)
36. (b) $y = 0$
37. (b) 20-30
38. (a) 11-20
39. (c) 5-8
40. (d) raw data

Case study :) based-1 :-

41. (i) $3x = y$
42. (i) (4, 1)
43. (iii) 25
44. (b) infinitely many sols.

45. $4x + 2y - k = 0$
$4 \times (-1) + 2 \times 3 - k = 0$
$-4 + 6 - k = 0$
$\Rightarrow -k = -2$
(iii) 2.

Case study :) Based-2 :-

46. (b) 9
47. (a) 180
48. $\frac{190+181}{2} = \frac{371}{2} = 185.5$
(c) 185.5
49. (d) 28
50. (d) 31

2) 371 (185.5
21
17
16
11
10
10
10
0