

Test

Q-1

$$a = (0, 0)$$

$$b = (0, 0)$$

Q-2

① I, quadrant

② II, quadrant

③ III, quadrant

= IV quadrant $x+, y-$

Q-3

= Given Point

$$= A(2, 3), B(8, 3), C(8, 7), D(2, 7)$$

$$AB = 8, 2 = 6 \text{ units}$$

$$BC = 7, 3 = 4 \text{ units}$$

$$\text{Length} = 6 \text{ units}$$

$$\text{Breadth} = 4 \text{ units}$$

$$(P) \text{ Perimeter} = 2(l + b)$$

$$= 2(6 + 4)$$

$$= 2(10)$$

$$= 20 \text{ units}$$

Q-4

$$(A) = 6 \text{ units}$$

$$(B) = 8 \text{ units} \quad (C) = 5 \text{ units}$$

Q-5

$$a = RA \perp AP$$

$$d =$$

$$b = AM \parallel x\text{-axis}$$

$$c = MP \parallel y\text{-axis}$$

①-6g Degree = 1
② Coefficient = q

①-7

① $P(0) = S(0) - 3$
= -3 ans

② $P(-1) = S(-1) - 3$
= $-5 - 3$
= -8 ans

③ $P(2) = S(2) + 3$
= $10 + 3$
= 7 ans

①-8

= Given

Training fee = ₹ 200
Per match = ₹ 50

① Total amount = $50m + 200$

② 8 matches
= $50(8) + 200$
= $400 + 200$
= ₹ 600

③ Amount = ₹ 750
 $50m + 200 = 750$
 $50m = 750 - 200$

$$50m = 550$$

$$m = \frac{550}{50}$$

$$m = 11 \text{ matches}$$

Q Constant increase = ₹ 50 per match

Q-9 smaller no = x

Larger no = $x + 10$

Sum = 64

$$x + (x + 10) = 64$$

$$2x + 10 = 64$$

$$2x = 64 - 10$$

$$2x = 54$$

$$x = \frac{54}{2}$$

$$x = 27$$

Smaller no = 27

Larger no = $27 + 10$

Q-10

Q-11

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a-b)^2 = a^2 - 2ab + b^2$$

Q-12

$$\text{Using } (a+b)^2 = a^2 + 2ab + b^2$$

$$= (5x)^2 + 2(5x)(2y) + (2y)^2$$

$$= 25x^2 + 20xy + 4y^2$$

$$a - 146(16y^2) \div 24y + 4$$

$$= (4y^2) - 2(4y)(3) + (3^2)$$

$$= (4y - 3)^2$$

$$(6) \quad 25x^2 - 40$$

$$= (5x^2) + (7^2)$$

$$= (5x - 7)(5x + 7)$$

$$(7) \quad x^2 + 11x^2 + 30$$

$$= 5 + 6 = 11$$

$$= 5 \times 6 = 30$$