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Paper – 3 (Straight Line)

- A is a point on the positive x -axis at a distance 3 units from the origin and B is a point on the positive y -axis at a distance 4 units from the origin. If P divides AB in the ratio 1 : 2, the coordinates of P are
(a) $(1, 8/3)$ (b) $(2, 4/3)$ (c) $(8/3, 1)$ (d) $(4/3, 2)$
- The slopes of the line which passes through the origin, and the mid-point of the line segment joining the points $P(3, -4)$ and $Q(-5, -2)$ is
(a) 3 (b) -3 (c) -1 (d) 1
- Distance between $P(x_1, y_1)$ and $Q(x_2, y_2)$ when PQ is parallel to y -axis is
(a) $x_1 - x_2$ (b) $|x_1 - x_2|$ (c) $y_1 - y_2$ (d) $|y_1 - y_2|$
- The lines parallel to the axes and passing through the point $(4, -5)$ are
(a) $x = -5, y = 4$ (b) $x = 5, y = -4$ (c) $x = 4, y = -5$ (d) $x = -4, y = 5$
- The equation of the line whose perpendicular distance from the origin is 3 units and the angle which the normal makes with the positive direction of x -axis is 30° is
(a) $x + \sqrt{3}y = 3$ (b) $\sqrt{3}x + y = 6$ (c) $\sqrt{3}x + y = 1$ (d) $x + \sqrt{3}y = 1$
- Points $(8, 2)$, $(-2, -2)$ and $(3, 0)$ are the vertices of
(a) an equilateral triangle (b) an isosceles triangle
(c) right angled triangle (d) none of these
- If the angle between the lines $\sqrt{3}y - x + 4 = 0$ and $x + y - 6 = 0$ is q , then $\tan q$ is equal to.
(a) $\sqrt{3} + 1$ (b) $\sqrt{3} - 1$ (c) $2 + \sqrt{3}$ (d) $3 + \sqrt{3}$
- Equation of the line passing through the point $(a - 1, a + 1)$ and making zero intercept on both axes is
(a) $ax + ay - 1 = 0$ (b) $(a + 1)x + (a - 1)y = 0$
(c) $(a - 1)x - (a + 1)y = 0$ (d) $(a + 1)x - (a - 1)y = 0$
- The angle which the normal to the line $x - 3y + 8 = 0$ passing through the origin, makes with the positive x -axis is
(a) 30° (b) 60° (c) 120° (d) 150°
- If the line through the points $(h, 7)$ and $(2, 3)$ intersects the line $3x - 4y - 5 = 0$ at right angles, then the value of h is
(a) -1 (b) 1 (c) 5 (d) -5

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Answer Key will be available in next paper.

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Answer Key Paper 2

01.A	02.C	03.A	04.A	05.B
06.A	07.C	08.B	09.D	10.A

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