

Coordinate Geometry

PART - I

The line $y = -x + 6$ does not pass through which of the following points? SSC CGL 12/09/2025 (Shift 2)

(a) (4, 2)

(b) (3, 4)

(c) (5, 1)

(d) (6, 0)



Which of these lines is parallel to $4x - 5y = 10$? SSC CGL 13/09/2025 (Shift 1)

(a) $5x - 4y = 10$

(b) $4x + 5y = 15$

(c) $4x - 5y = 15$

(d) $x + y = 10$



What is the equation of line through (0, 2) with slope -1 ? SSC CGL 13/09/2025
(Shift 2)

(a) $y = x + 2$

(b) $y = -x - 2$

(c) $y = -x + 2$

(d) $y = x - 2$



Find y-intercept of $2x + 3y = 18$ SSC CGL 14/09/2025 (Shift 1)

(a) 3

(b) 4

(c) 5

(d) 6



Find the slope of the line perpendicular to $y = \frac{1}{3}x + 7$ SSC CGL 14/09/2025

(Shift 3)

(a) - 3

(b) 3

(c) - $\frac{1}{3}$

(d) $\frac{1}{3}$



Which line has slope 2 and passes through (1, 4) ? SSC CGL 16/09/2025 (Shift 2)

(a) $y = 2x + 1$

(b) $y = 2x + 2$

(c) $y = 2x + 3$

(d) $y = x + 3$



What is the slope of the line $4x + 6y = 12$? SSC CGL 17/09/2025 (Shift 1)

(a) $-2/3$

(b) $2/3$

(c) $-3/2$

(d) $2/3$



A line L is the perpendicular bisector of the line segment connecting points $A(4, 10)$ and $B(16, -2)$. What is the y -intercept of line L ? SSC CGL 17/09/2025 (Shift 1)

(a) -6

(b) 4

(c) 6

(d) 10



What is the equation of the perpendicular bisector of the line segment connecting the points (4, 8) and (2, 6) ? SSC CGL 17/09/2025 (Shift 3)

(a) $y = -x - 10$

(b) $y = x - 3$

(c) $y = -x + 10$

(d) $y = x + 4$



Triangle ABC has its centroid at point $G(6, 7)$, and vertex A is located at $(3, 5)$. If point D is the midpoint of side BC, what are the coordinates of D? SSC CGL

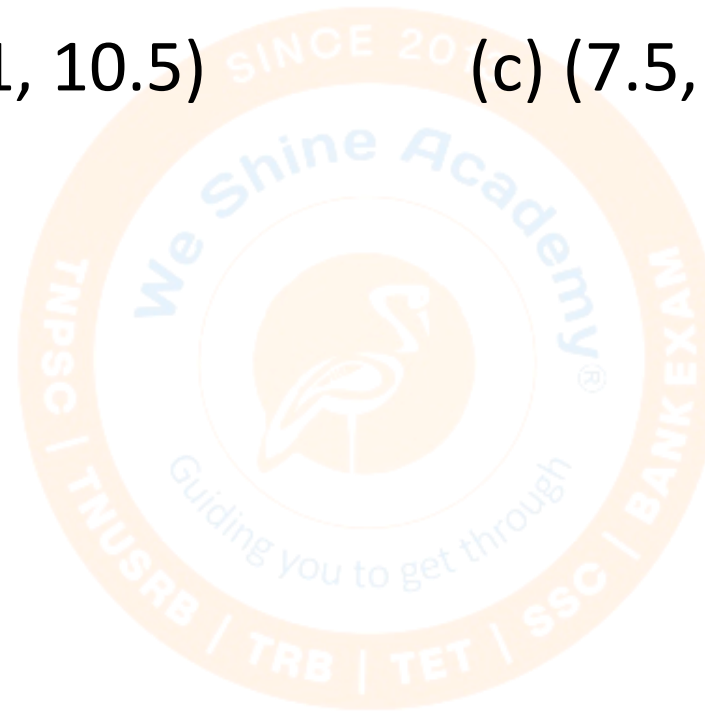
18/09/2025 (Shift 1)

(a) $(8.5, 9.5)$

(b) $(9.1, 10.5)$

(c) $(7.5, 8.0)$

(d) $(6.5, 9.5)$



A line $y = mx + 3$ passes through $(2, 9)$. Find the value of m . SSC CGL 18/09/2025 (Shift 2)

- (a) 3 (b) 4 (c) 6 (d) 9



Find slope of line $5x + 3y = 9$. SSC CGL 18/09/2025 (Shift 3)

(a) $-5/3$

(b) $5/3$

(c) $-3/5$

(d) $3/5$



The graph of $-x + y = 2$ passes through which point? SSC CGL 19/09/2025 (Shift 1)

(a) (1, 3)

(b) (2, 4)

(c) (0, 2)

(d) All the above



What is the equation of line through (3, -5) with slope -2. SSC CGL 19/09/2025
(Shift 2)

(a) $y = -2x - 5$

(b) $y = -2x + 1$

(c) $y = -2x - 2$

(d) $y = -2x + 3$



In a triangle PQR, the centroid is at $G(3, 1)$. If the vertices P and Q are at $(5, -2)$ and $(-1, 3)$ respectively, what are the coordinates of vertex R ? SSC CGL 19/09/2025

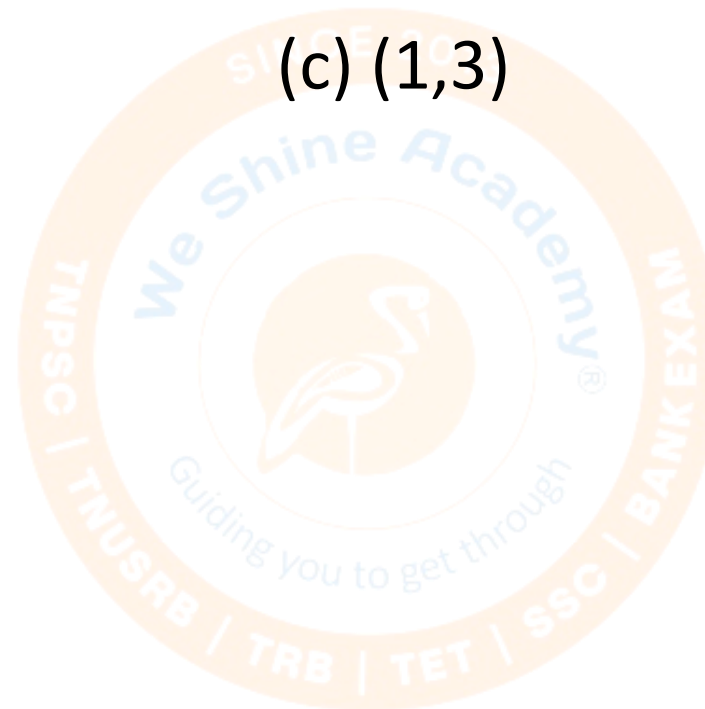
(Shift 2)

(a) $(5, 2)$

(b) $(2, 4)$

(c) $(1, 3)$

(d) $(2, 3)$



Which point lies on $y = 2x - 5$? SSC CGL 19/09/2025 (Shift 3)

- (a) (0, -5) (b) (3,1) (c) (1, -3) (d) all



What is the equation of line through (3, 4) and (5, 8)? SSC CGL 20/09/2025 (Shift 2)

(a) $y = 3(x - 1)$

(b) $y = 3x + 1$

(c) $y = 4x - 2$

(d) $y = 2(x - 1)$



A right triangle has vertices at $A(0,0)$, $B(10,0)$ and $C(0,8)$. What are the coordinates of its circumcenter? SSC CGL 20/09/2025 (Shift 2)

(a) (5, 4)

(b) (4, 5)

(c) (3, 4)

(d) (6, 4)



If line passing through $(4, -1)$ with slope 6; find y-intercept. SSC CGL 20/09/2025
(Shift 3)

(a) -23

(b) -25

(c) 24

(d) -12



If $y = mx + 1$ passes through (3, 7), find m. SSC CGL 21/09/2025 (Shift 1)

- (a) 2 (b) 1 (c) 0 (d) 3



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Thank You