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Co-ordinate Geometry Practice

30 Minutes - (Don't skip any questions)

1) In XY co-ordinate system if (a, b) and $(a + 3, b + k)$ are two points on line defined by the equation $x = 3y - 7$, then $k = ?$								
E. 1/3								
2) If points $(0, -3)$, $(6, 0)$ and $(k, 10)$ all lie on the same line, what is the value of k ?								
E. 26								
3) Three vertices of a square are at $(-1, -1)$, $(-2, 3)$ and $(3, 0)$. What are the coordinates of the 4^{th} vertex?								
E. (3,4)								
4) The points $A(0,6)$, $B(-5,3)$ and $C(3,1)$ are the vertices of a triangle which is A. Equilatral triangle B. Right angled triangle C. Right angled Isosceles triangle D. Isosceles triangle E. None of these								
E. (0,0)								
6) Which of the following is the best approximation of the perimeter of a triangle with vertices at $(1,4),(1,1)$ and $(3,2)$?								
E. 8								
ary of a triangle in the xy-								
E. 5√3								

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8) In the rectangular coordinate plane, point A has coordinates (-4,0), point B has coordinates (0,4), point C has coordinates (4,0), and point D has coordinates (0,-4). What is the area of quadrilateral ABCD?

A. 8

B. 16

C. 24

D. 32

E. 64

9) The line 2x + 3y = 6 meets x-axis at the point

A. (0,3)

B. (0, -3)

C. (6,0)

D. (-3,0)

E. (3,0)

10) The value of β so that the lines x + 2y - 9 = 0 and $\beta x + 4y + 5 = 0$ are parallel is:

A. 2

B. -1

C. 1

D. 0

E. -2

11) The intercepts made by the line 3x - 2y - 6 = 0 with x-axis and y-axis respectively are:

A. 3 and 2

B. 2 and 3 C. 2 and -3

D. -2 and 3

E. -2 and -3

12) The lines whose equations are 3x - 7y + 9 = 0 and 9x - 21y + 27 = 0 are:

A. Parallel

B. Perpendicular

C. Coincident

D. Intersecting

E. None of these

13) The equation of the line parallel to y-axis and passing through (3, -7) is:

A. y = -7

B. x = 3

C. y = 3x

D. y = -7x

E. None

14) Isosceles triangle ABC has an area of 4 sq. units and lies in the 1st quadrant. If the co-ordinates of A and C are (2,0) and (4,0) respectively, and AB = BC, then the co-ordinates of the vertex B are:

A. (3,2)

B. (3,4)

C. (4,4)

D. (4,3)

E. (0,3)

15) Point A(2,1) is the center of the given circle and B(2,6) lies on the circle. Point C lies on the circle in the 2nd quadrant. What are the co-ordinates of C?

A. (1, -4)

B. (-5,1)

C. (-4,1)

D. (-3,1)

E. (-2,1)

16) 2 points A(0.5a) and B(3a,0) lie on the line L. Find the slope of line L.

A. 0

B. 3/5

C. -5/3

D. 5/3

E. -3/5