Co-ordinate Geometry Practice

# 30 Minutes – (Don’t skip any questions)

1. In XY co-ordinate system if and are two points on line defined by the equation , then

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1. If points and all lie on the same line, what is the value of ?

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1. Three vertices of a square are at and . What are the coordinates of the vertex?

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1. The points and are the vertices of a triangle which is

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1. What point on X–axis is equidistant from the points and ?

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1. Which of the following is the best approximation of the perimeter of a triangle with vertices at and ?

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1. The three lines , and form the boundary of a triangle in the xy-plane. What is the area of this triangle?

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1. In the rectangular coordinate plane, point A has coordinates , point B has coordinates , point C has coordinates , and point D has coordinates . What is the area of quadrilateral ABCD?

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1. The line meets x-axis at the point

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1. The value of β so that the lines and are parallel is:

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1. The intercepts made by the line with x-axis and y-axis respectively are:

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1. The lines whose equations are and are:

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1. The equation of the line parallel to y-axis and passing through is:

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1. 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:

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1. Point is the center of the given circle and lies on the circle. Point C lies on the circle in the 2nd quadrant. What are the co-ordinates of C?

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1. 2 points and lie on the line L. Find the slope of line L.

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