

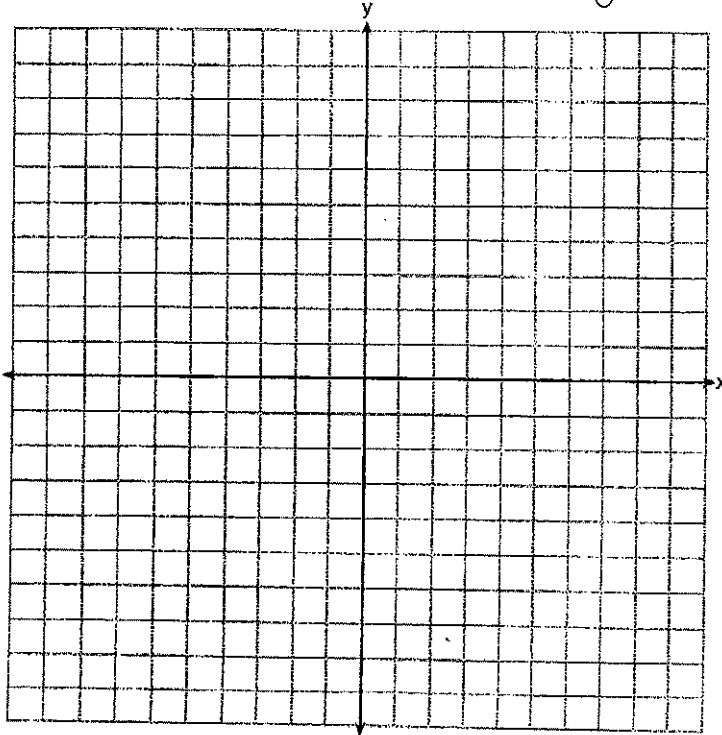
Name: _____

Date: _____

Coordinate Geometry Review

(PreIB
only)

1. The vertices of triangle ABC are A(7, 1), B(7, 5), and C(10, 1). Find the ~~area of the~~ ^{distance of \overline{BC}} triangle using the distance formula. (grid is optional)



2.

What are the coordinates of the midpoint of the line segment whose endpoints are $(c,0)$ and $(0,d)$?

3

Find the value of k so that the slope of the line joining $(4, k)$ and $(5, k^2)$ is 20.

4.

What is the slope of a line that is perpendicular to the line whose equation is $2x - y = 7$?

A) $-\frac{1}{2}$

B) $\frac{1}{2}$

C) -2

D) 2

Explain your answer:

5.

Write an equation of a line that passes through the points $(-1, -2)$ and $(5, 1)$.

6.

The coordinates of the midpoint of line segment \overline{AB} are $(1, 2)$. If the coordinates of point A are $(1, 0)$, find the coordinates of point B.

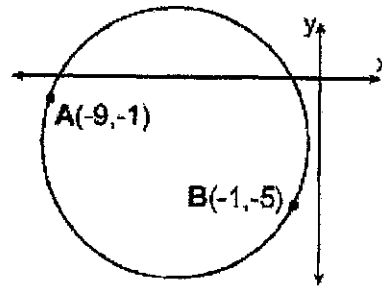
7.

Write an equation of the line parallel to the line $5y + 6x = 11$ and passing through the point $(-3, 7)$.

8. Write the equation of the line, in slope-intercept form, that is the perpendicular bisector of the line segment having endpoints of $(-4, -2)$ and $(8, 4)$.

9.

\overline{AB} is the diameter of the circle shown in the accompanying diagram.



What are the coordinates of the center of this circle?

