

Geometry (G.GPE.B.4)

Unit One B – Coordinate Geometry Practice #1 (HW33)

Name: _____

Date: _____ Period: _____

1. Write the equation of a line through (3, 5) and (0, 7).

2. Write the equation of a line parallel to $y = 4x - 5$ through the point (-2, 3).

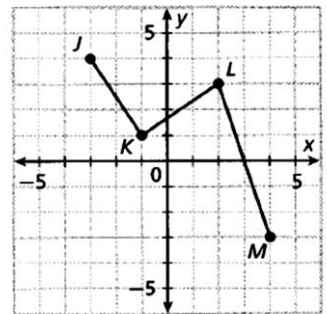
3. Write the equation for a line perpendicular to $y = 4x - 5$ through the point (8, -3).

4. Are the following lines parallel, perpendicular, or neither? $7x - 1y = 14$
 $7x + 1y = 14$

5. Find the distance between J and L . _____

Find the length of \overline{LM} . _____

Prove that $JK = KL$.



6. Solve for y if the distance between A and B is 10.

A(5, y) and B(-1, -4)

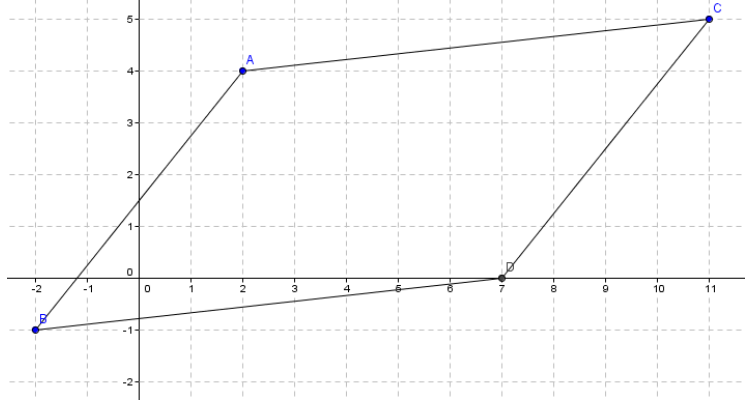
7. Using the figure to the right, find the slope of all four sides.

a. $m_{AB} =$

b. $m_{BD} =$

c. $m_{DC} =$

d. $m_{AC} =$



Can you make any conclusions about the sides of this shape?

8. Using the figure above, find the distance of all four sides.

a. AB =

b. BD =

c. DC =

d. AC =

Can you make any conclusions about the side of this shape?

9. Determine the midpoint of each of the following segments.

a) A (-4,6) B (2,-3)

b) A $\left(\frac{2}{5}, -3\right)$ B $\left(\frac{-1}{3}, \frac{1}{2}\right)$