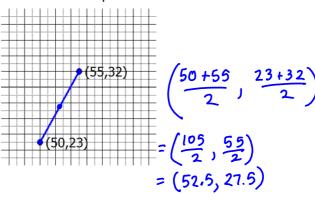
Finding the midpoint:

mean of the x's and y's

$$(x_1 + x_2, y_1 + y_2)$$

Coordinate

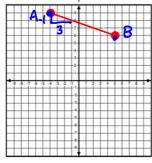
Find the midpoint



Finding the slope (m)

Slope: m =
$$\frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{6-9}{5-4} = \frac{-3}{3}$$



Slope of AB= $-\frac{1}{3}$

Find slope of line through $\underline{A(-4,9)}$ and $\underline{B(5,6)}^2$ $\frac{\underline{A9}}{4k} = \frac{-3}{9} = -\frac{1}{3}$

The slope of a line parallel to \overrightarrow{AB} is $\frac{1}{3}$ because it is the same

The slope of a line perpendicular to AB

is 3 because it is the

negative reciprocal

ex.
$$\frac{2}{3} \rightarrow -\frac{3}{2}$$
 $\frac{1}{4} \rightarrow \frac{1}{4}$

