

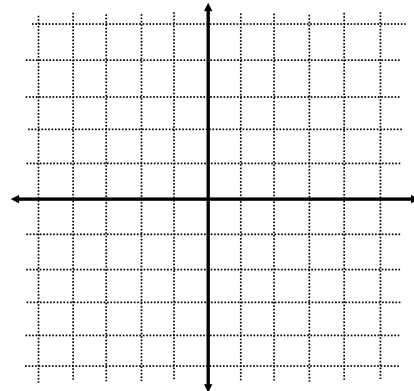
6.1 Slope of a Line

* The slope, or of a line is given by:

$$m = \frac{\quad}{\quad} \quad \text{or } m = \frac{\quad}{\quad}$$

* Positive slope from left to right while negative slope from left to right.

ex.



$$m_{AB} =$$

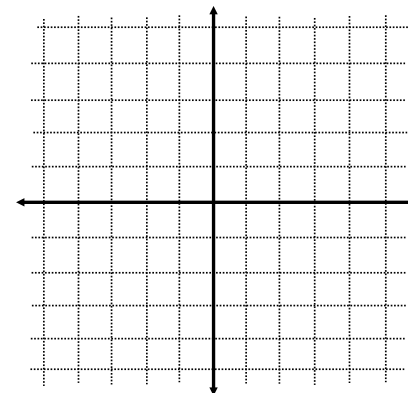
$$m_{CD} =$$

* a horizontal line has a slope =

Ex. Draw a line segment that has the following slopes

a) $m = 3$

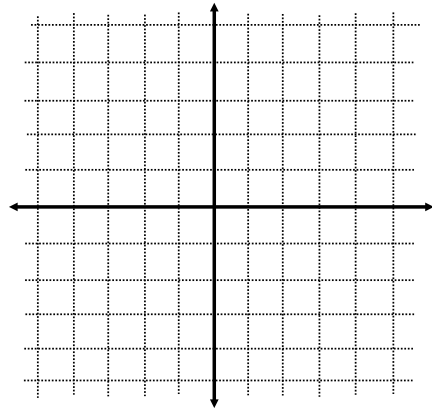
b) $m = -4/5$



* Regardless of the points used to calculate the slope of a line, the slope will always be the same.

Slope: If a line passes through $A(x_1, y_1)$ and $B(x_2, y_2)$, the equation for slope is

$$m_{AB} =$$



ex. Find the slope of the line that passes through $D(-3, -2)$ and $E(10, 5)$