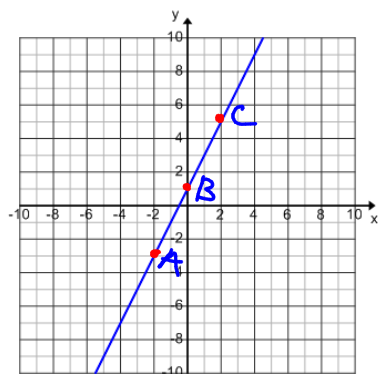## 4.2 Slope of a Line

$$m = \frac{rise}{run} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Constant Slope Property:
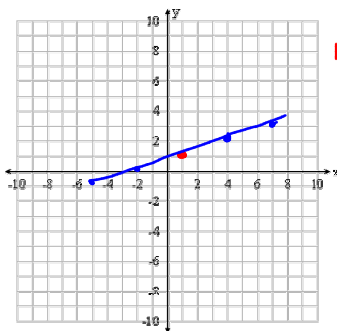The slopes of ALL segments that lie on the <u>same</u> line are equal.
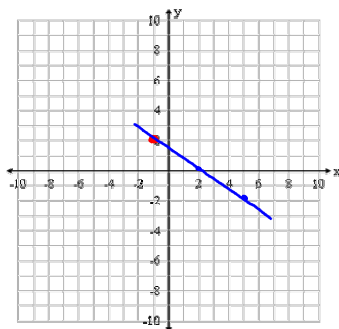
$$m\,AB = m\,BC$$

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Graph a line with a slope of 1/3 and going through the point (1, 1)
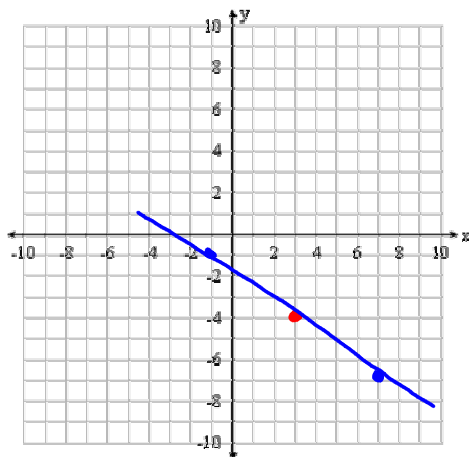
$$m = \frac{1}{3} = \frac{rise}{run}$$

$$\frac{-1}{-3}$$

Graph a line with a slope of -2/3 and going through the point (-1, 2)

$$\frac{-2}{3} \quad \frac{rise}{run}$$

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1

Graph the line going through the point (3, -4) and perpendicular to 4/3

$$m = \frac{-3}{4}$$

$$m = \frac{3}{-4}$$

Mar 1-4:26 PM

Assignment: Pg. 210

1, 4ac, 7ac, 8-10

Mar 1-4:27 PM