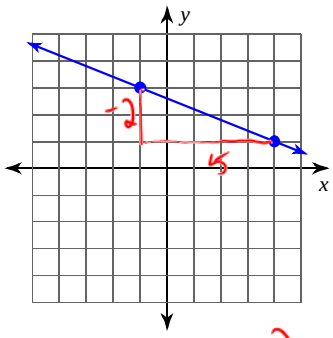
Math 9

Slope

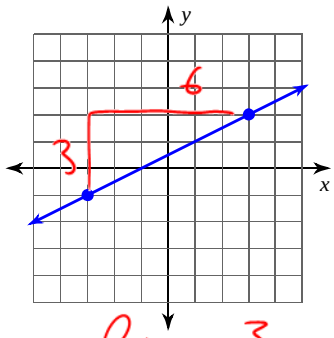
Find the slope of each line.

1)



$m = \frac{Rise}{Run} = \frac{-2}{5}$

2)



$m = \frac{Rise}{Run} = \frac{3}{6} = \frac{1}{2}$

Find the slope of the line through each pair of points.

3) $(13, -13), (5, 7)$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{7 - (-13)}{5 - 13} = \frac{20}{-8} = -\frac{5}{4}$

4) $(16, 6), (-8, -2)$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 6}{-8 - 16} = \frac{-8}{-24} = \frac{1}{3}$

Slope as a Rate of Change (Average)

5) After 30 baseball games, Jose Bautista had 25 hits. If after 100 games he had 80 hits, what is his average hits per baseball game?

x = games

y = hits

$(30, 25)$

$(100, 80)$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{80 - 25}{100 - 30} = \frac{55}{70} = \frac{11}{14}$

≈ 0.79 hits per game.