Name:_____ Block _____ Date _____

Essential Question:

WHAT IS SLOPE?	→	**WORDS:**

GRAPH:

FORMULA:
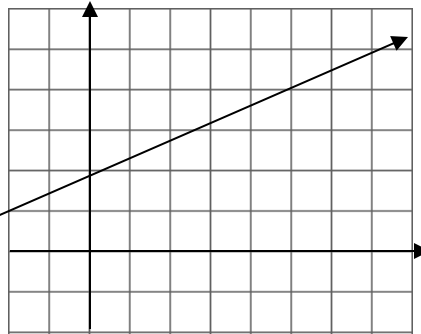
Find the slope between the following points.

1. (5,2) and (4,-1)	2. (-2,3) and (4,6)
3. (4.5, 5) and (.5,-3)	4. (1,3) and (3,-2)

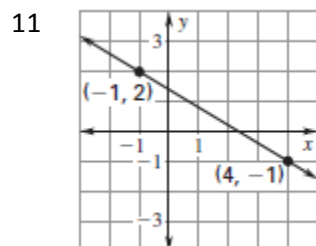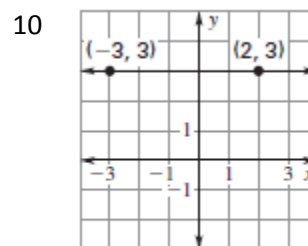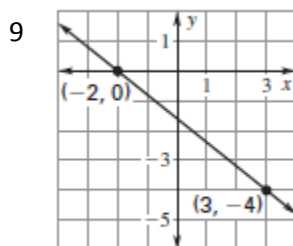| *Types of Slopes*			

Find the slope of the line that passes through the following points. Tell if it rises, falls, is 0, or undefined.

5) (5,2) and (5,-2)	6) (0,4) and (-3,4)	7) (0,6) and (0,-4)

Finding slope from a graph:

Find the slope of the line in the following graphs:

8

(5, 3)
(2, 1)

9

(−2, 0)
(3, −4)

10

(−3, 3)   (2, 3)

11

(−1, 2)
(4, −1)

12

(1, 5)
(−4, 2)

13

(2, 2)
(2, −3)
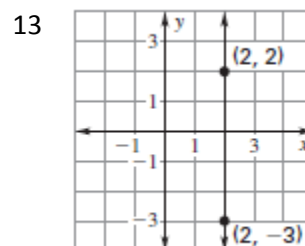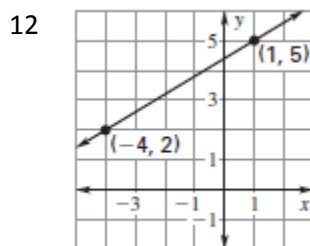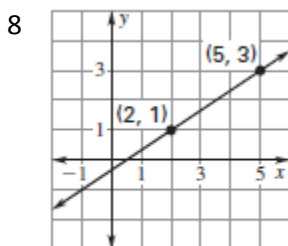
Rate of Change

_____ can be used to represent an average rate of change.

Example 1: A skateboard ramp has a rise of 15 inches and a run of 54 inches. What is its slope?

Example 2: One afternoon your family goes out to pick strawberries. At 1:00 p.m., your family has picked 3 quarts. Your family finishes picking at 3:00 p.m. and has 28 quarts of strawberries. At what rate is your family picking strawberries?

Example 3: Kevin's savings account balance changed from $1,140 in January to $1,450 in April. Find the average rate of change per month. Round your answers to the nearest dollar. (Let x = 1 represent January).

Example 4: John would like to know how much he saved per month last year. In January, his savings account balance was $300. A year later, in December, his savings account balance was $1,500. What is the rate of change of John's account per month? (Let x = 1 represent January)