Untitled.notebook March 15, 2017

Geometry CC - Mr. Valentino

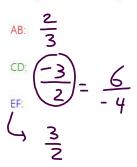
Unit 9 Lesson 1: Slope!

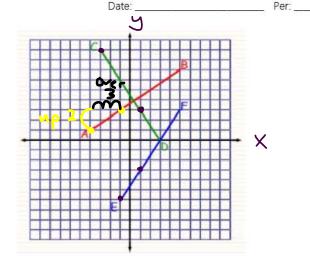
Unit 10

Aim: How can we find slope?

Do Now: Find the slope of each line segment







Name:

How can we find the slope between two points not on the coordinate plane?

If two lines are parallel, then they have $\frac{\text{the Same}}{\text{slopes}}$ slopes.

$$y = \frac{2}{3}x + 17$$

$$Y = \frac{2}{3} \times -100$$
Negative
If two lines are perpendicular then they have $\frac{\text{recipro(a)}}{\text{slopes}}$.

$$y = \frac{3}{5}x + 2$$

 $y = -\frac{5}{3}x - 8$

1. Which equation represents a line parallel to the graph of 2x - 4y = 16





$$(1) y = \frac{1}{2} x - 5$$

2)
$$y = -\frac{1}{2}x + 4$$

3)
$$y = -2x +$$

$$2x - 4y = 16 - 4y = -2x + 16$$

$$2x - 4y = 16 - 4y = -2x + 16$$

$$y = \frac{1}{2}x - 4$$

2. What is the slope of a line perpendicular to the line who equation is 3x + 4y = 12?

$$2) - \frac{3}{4}$$
 3) $\frac{4}{3}$

3)
$$\frac{4}{3}$$

$$4) - \frac{4}{3}$$

3. Which equation represents the line that passes through the point (-2, 2) and is parallel to $y = \frac{1}{2}x + 8$?

$$3. y = \frac{1}{2}x + 3$$

$$4. y = -2x + 3$$

$$y-y_1 = M(x-x_1)$$

 $y-2 = \frac{1}{2}x+1$ $y = \frac{1}{2}x+3$

1. Find the slope of the line connecting the points (3, -2) and (4, 5).

HW: #2 we did not do and #1,8,9

- 2. What is the slope of the line that passes through the points (2, -7) and (-1, 4)?
- 3. Two points whose coordinates are (5, -8) and (3, a) determine a line whose slope is 4. Find the value of a.

4. Which set of points determine a line with a slope of 1/5?

A. (2, 3), (7, 4)

B. (3, -2), (8, -3)

C. (7, 1), (8, 6)

D. (4, 5), (3, 6)

- 5. What is the slope of the line that passes through the points (0, 8) and (3, 0)?
- 6. What value of y would make AB||CD if A(2, 6), B(8,-2), C(-2, 4) D(10, y)?
- 7. What is the equation of a line passing through (2, -1) and parallel to the line represented by the equation y = 2x + 1?
- 8. What is the equation of the line that is parallel to the line whose equation is 4x + 3y = 7 and also passes through the point (-5, 2)?
- 9. What is an equation of the line that contains the point (3, -1) and is perpendicular to the line whose equation is y = -3x + 2?