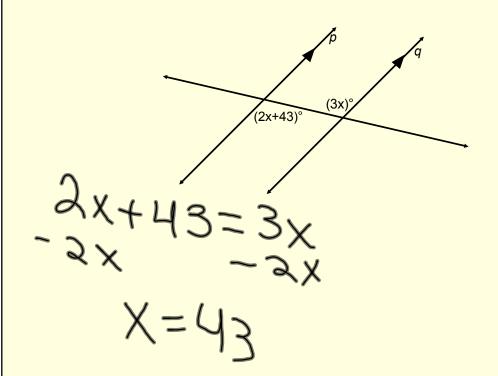
Bellwork 10/03/2011

1. Find the value of x that makes p||q.



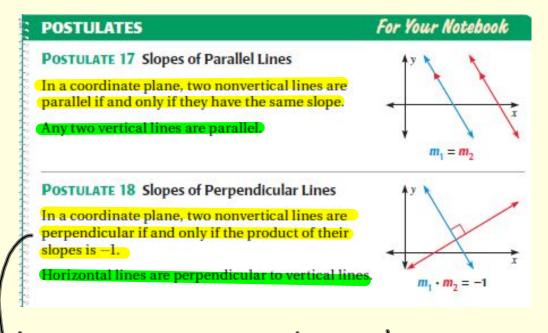
Geometry 3.4 Find and Use Slopes of Lines Standard(s): 2,3

Vocabulary:

1. Slope: the ratio of vertical change to horizontal change.

$$m = \frac{rise}{run} = \frac{y_2^{-y_1}}{x_2^{-x_1}}$$

Slope of Lines in the Coordinate Plane Negative slope: falls from left to right, as in line j Positive slope: rises from left to right, as in line k Zero slope (slope of 0): horizontal, as in line k Undefined slope: vertical, as in line n



Note: perpend; cular slope

Opposite reciprocal

Find Slopes of Lines in a Coordinate Plane

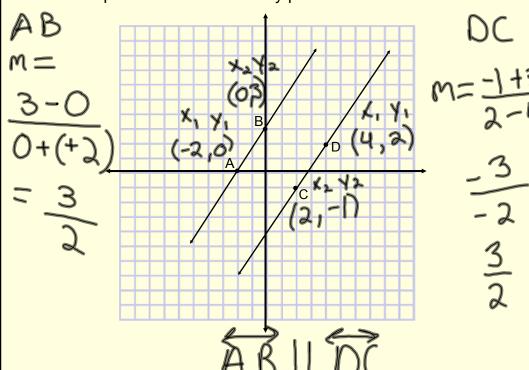
Find the slope of the line that passes through the two points.

$$M = \frac{y_{\lambda} - y_{1}}{X_{2} - x_{1}} = \frac{(-3, 2)}{(-3, 2)} \times \frac{y_{3}}{(-3, 0)}$$

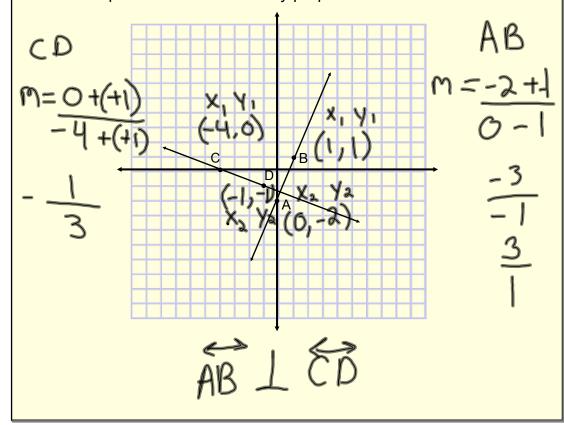
$$\frac{0 - \lambda}{2 + (+3)} = \frac{2}{5}$$

Identify Parallel & Perpendicular Lines

Find the slope of each line. Are they parallel?



Find the slope of each line. Are they perpendicular?



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Compare the Slope of Lines

Tell which line through the points is steeper.

Line 1: (-3, 4), (-3, 1)Line 2: (2, 1), (5, 5)

Line 1

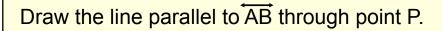
Vertica | Line 1: (-5, 0), (-3, -2)

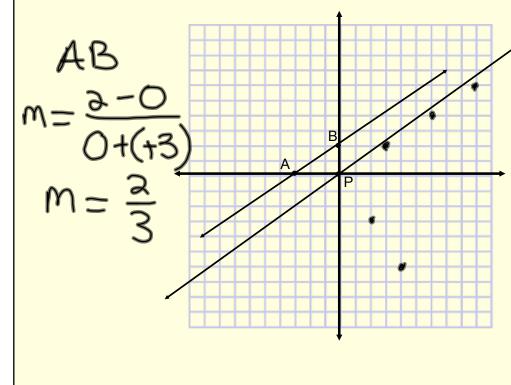
Line 2: (-2, 2), (0, 4)

Line 2:

Pull







1. Find Slope of the given 1. Start of the given pt. Luse your new slope.

3. Draw on

*How could you draw a line perpendicular to \overrightarrow{AB} through P?

Homework Assignment Worksheet 3.4B

October 03, 2011

Lesson 3.4