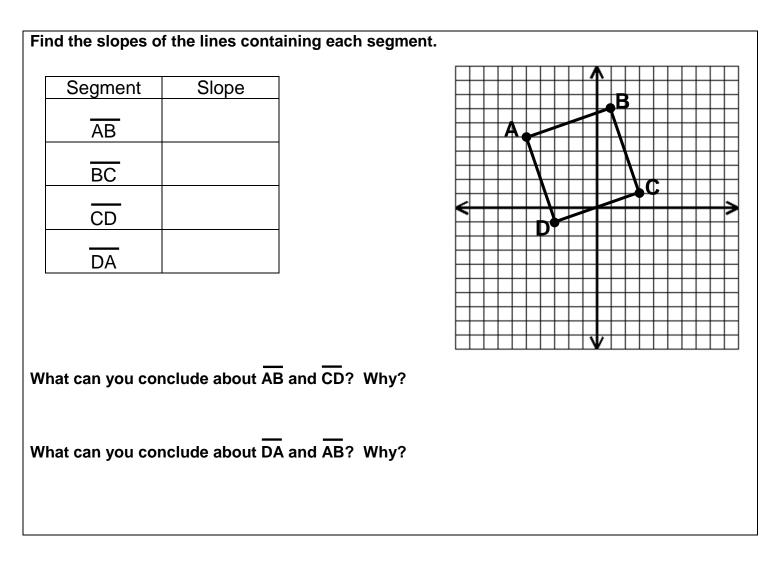
PARALLEL & PERPENDICULAR LINES – Day 2



EXAMPLES.

1. Find the slope of a line that would be parallel to 2x - 3y = -12.

2. Find the slope of a line that would be perpendicular to 4x + 5y = -15.

3. Given the equation 4x - 2y = -10, write the equations, in slope-intercept form, of the lines that pass through the point (8, 10) and are:

- a) *PARALLEL* to the graph of the given line.
 - A. y = 2x 6
 - B. $y = -\frac{1}{2}x + 6$
 - C. $y = -\frac{1}{2}x + 14$
 - D. y = 2x + 6
- b) <u>PERPENDICULAR</u> to the graph of the given line.

- 4. Given the equation x = 3, write the equations of the lines that pass through the point (-7, 2) and are:
 - a) <u>PARALLEL</u> to the graph of the given line.

b) <u>PERPENDICULAR</u> to the graph of the given line.