PARALLEL & PERPENDICULAR LINES – Day 2

Find the slopes of the lines containing each segment.

Segment	Slope
$\overline{AB}$	
$\overline{BC}$	
$\overline{CD}$	
$\overline{DA}$	
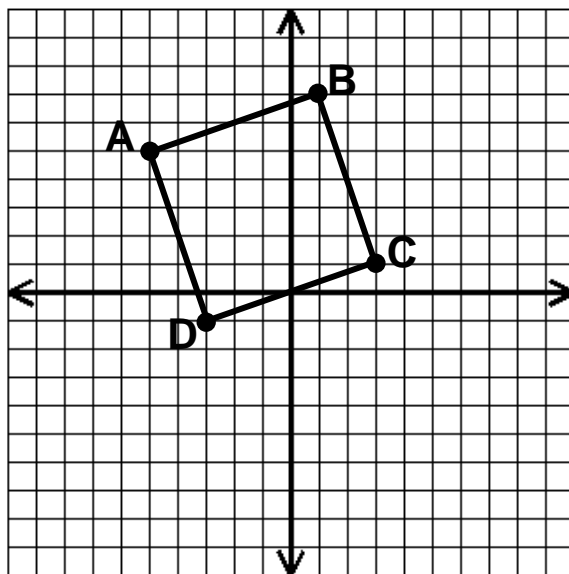
What can you conclude about $\overline{AB}$ and $\overline{CD}$? Why?

What can you conclude about $\overline{DA}$ and $\overline{AB}$? Why?

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. Write the equation, in slope-intercept form, of a line that passes through the given point and is _PARALLEL_ to the graph of the given equation.

$(4, 5)$; $5x - y = -10$

4. Write the equation, in slope-intercept form, of a line that passes through the given point and is _PERPENDICULAR_ to the graph of the given equation.

$(-9, -1)$; $3x + 4y = 8$