SECTION 3.5: SLOPES OF PARALLEL & PERPENDICULAR LINES

Homework: _____

Learning Target:

3d. Understanding of how to determine if lines are parallel or perpendicular on a coordinate plane
3e. Understanding of how to write parallel and perpendicular linear equations.

Vocabulary:

Parallel Slopes	Perpendicular Slopes
Point-Slope Form	Slope

Find the slope, parallel slope, and perpendicular slope for each line.

1. A(-2, 3) B(4, -5)

2. C(4, -3) D(4, 1)

3. E(-7, 2) F(1, 6)

Write an equation for a line that satisfies each statement.

4. (-2, 5) m = ½

5. (3, -8) m = $\frac{2}{3}$

6. (-4, 9) parallel to m = ¾

7. (3, 4) perpendicular to m = -3