Name: ______

Date: _____

Instructions: Please complete the following problems.

Problem 1. Find the slope: (2,5) and (3,-7)

Problem 2. Find the equation of a line passing through (-2, -4) and has a slope of 4.

Problem 3. Find the equation of a line passing through (-3, -2) and (3, 6).

Problem 4. Graph the following and state each of their slopes:

x = -2
y = 2x + 2
y = -2

Problem 5. Determine if the lines are parallel, perpendicular, or neither: 8x + 3y = 7 and 7x - 5y = 0.

Problem 6. Find the equation of a line that passes through (3, 7) and is parallel to the line 6x + 3y = 36.

Problem 7. Find the equation of a line that passes through the point (8, 2) and is perpendicular to the line 2x + 3y = 18.

Problem 8. Find the equation of a line that passes through the point (3, 5) and is perpendicular to the line containing (1, 8) and (5, 20).