Algebra 2   Hwk #9   Sec 2-2   Name:

Write each equation in Slope-Intercept Form.

1. $8x - 6y = 30$

2. $y + 9 = \frac{2}{3}(x - 12)$

3. Write the the equation of the line that passes through the following two points. Give your answer in Point-Slope Form.

$(5, -9)$ & $(-2, 7)$

4. Write the equation of the line that passes through the following two points. Give your answer in Slope-Intercept Form.

$(4, -1)$ & $(-8, -7)$

5. Tell if each pair of lines are Parallel, Perpendicular, or Neither.

a) $y = -2x + 5$

$8x + 4y = 20$

b) $y = \frac{1}{3}x - 4$

$6x + 2y = -8$

6. Write the equation of the line that is parallel to the line $y = 4x - 9$ and passes through the point $(5, -1)$.

7. Write the equation of the line that is perpendicular to the line $y = 4x + 7$ and passes through the point $(-4, 9)$.

1