Algebra II, 5.2-5.4

- 1. For each of the expressions below state whether it is linear in *x*.
 - a) 5x-7+2x
 - b) (3x-2)x
- 2. Write the equations below in the form mx+b and identify the values of m and b
 - a) y 8 = 3(x 5)
 - b) 4x 7y = 12
- 3. Write an equation in slope-intercept form for the line that passes through (4,6) with slope of -2.

4. Write an equation in slope-intercept form for the line that passes through (6,8) and (8,12)

5. Write an equation in slope-intercept form for the line that is perpendicular to the line y=5x-7 and has the same y-intercept.