Name _____

Date _____ Hour _____

Algebra 2 & Trig.

Problem of the week- Due 11-07-2008

Directions: Print out this page and answer the following questions directly on that sheet of paper.

1. (1 point) Write the equation of a line in point-slope form that passes through (-6, 4) and has a slope of 1/2.

2. (1 point) Solve for x: $|2x + 4| = 16$

3. (1 point) Is the following relation a function? $\{(3,1), (2, 5), (1, 7), (0, 5)\}$?

4. (1 point) Put the following equation into slope intercept form (y = mx+b): y – 3 = -2 (x + 1)

5. (1 point) Graph on a number line: x > -2

6. (1 point) Find the x and y intercepts of the equation: -3x + 2y = 18

7. (1 point) Find the determinant of: $\begin{vmatrix} 1 & -2 & 3 \\ 1 & -1 & 2 \\ 3 & 0 & -3 \end{vmatrix}$

8. (1 point) Simplify: $(4x - 3) - (x - 9)$

9. (1 point) Simplify: $(x + 4)^2$

10. (1 point) Solve the system: $\begin{cases} 3x + 2y = 11 \\ -2x - 5y = -22 \end{cases}$