

Name _____

Date _____ Hour _____

Algebra 2 & Trig.

Problem of the week- Due 11-14-2008

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

1. (1 point) Factor: $10x^2y^3 + 5xy$

2. (1 point) Factor: $x^2 + 3x - 18$

3. (1 point) Factor: $10xy + x + 10y + 5$

4. (1 point) Factor: $8x^3 + y^9$

5. (1 point) Factor: $x^2 + 36$

6. (1 point) Find the x and y intercepts of the equation: $3x + 5y = -15$

7. (1 point) Find the determinant of: $\begin{vmatrix} 5 & 1 \\ -3 & 2 \end{vmatrix}$

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

9. (1 point) Simplify: $(3x - 2)^2$

10. (1 point) Solve the system: $\begin{cases} 6x + 3y = 9 \\ x - 4y = 6 \end{cases}$