

Name _____

Date _____ Hour _____

Algebra 2 & Trig.

Problem of the week- Due 12-12-2008

Directions: Answer the following problems correctly and earn 10 points. Turn this in early for extra credit!

1. (2 points) Write out and calculate 5!

2. (2 points) A license plate has one letter (either A, B, C, X, Y, or Z) followed by four numerical digits. How many possible license plates are there?

3. (2 points) A license plate has one letter (either A, B, C, X, Y, or Z) followed by four numerical digits. How many possible license plates are there if numbers cannot repeat?

4. (2 points) Identify the slope (m) and the y-intercept (b) of the following equation. Hint: put it in slope-intercept form first!! $5x + 3y = 15$

5. (1 point) Evaluate: $3(15 \div 5) - (6 - 2^3)$

6. (1 point) Find the determinant of: $\begin{vmatrix} -5 & 4 \\ 1 & 6 \end{vmatrix}$