

(Name _____)

Date _____ Hour _____

Algebra 2 & Trig.

Problem of the week- Due 10-10-2008

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

1. (1 point) Identify the dimensions of the following matrix. $\begin{bmatrix} 1 & 2 & 6 \\ -2 & 4 & 1 \end{bmatrix}$.

2. (1 point) A matrix with equal rows and columns is called a _____ matrix.

3. (1 point) Use scalar multiplication to solve: $\frac{1}{3} \begin{bmatrix} 6 & 0 & -3 \\ 3 & 12 & -9 \\ -6 & 15 & 6 \end{bmatrix}$.

4. (2 points) Write the matrix that represents the ordered pair $(6, -2)$.

5. (3 points) Subtract. $2 \begin{bmatrix} 3 & -1 \\ 0 & 4 \end{bmatrix} - 5 \begin{bmatrix} 1 & -2 \\ 0 & 4 \end{bmatrix}$.

6. (2 points) Name the element in the third row and second column of: $\begin{bmatrix} 3 & 4 & 5 & 2 \\ 6 & 7 & 1 & 3 \\ 9 & 8 & 0 & 5 \end{bmatrix}$.