

9.1 – Matrices I

I. State the dimensions of the matrix. (Rows X Columns)

1. $\begin{bmatrix} 5 & -3 & 3 \\ 1 & 5 & 1 \\ 0 & 6 & -9 \end{bmatrix}$ dimensions: _____	2. $\begin{bmatrix} 1 & -2 \\ 6 & 9 \\ 9 & 2 \\ 4 & 1 \end{bmatrix}$ dimensions: _____
3. $\begin{bmatrix} 5 & 9 & -3 & 6 \\ 3 & 1 & 4 & 10 \end{bmatrix}$ dimensions: _____	4. $\begin{bmatrix} 1 & 4 & 10 & 6 \\ 2 & 3 & -1 & 9 \\ -8 & 9 & -3 & -8 \end{bmatrix}$ dimensions: _____
5. $\begin{bmatrix} 3 & 5 & -7 \\ 2 & -1 & 8 \\ 0 & 0 & 5 \\ 8 & -3 & 6 \end{bmatrix}$ dimensions: _____	6. $\begin{bmatrix} 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ dimensions: _____

II. Perform the indicated operation.

7. $-3 \begin{bmatrix} 1 & -3 & 6 \\ 9 & -1 & 4 \end{bmatrix} =$	8. $4 \begin{bmatrix} 0 & -7 \\ 5 & 3 \end{bmatrix} =$
9. $-8 \begin{bmatrix} 0 & \frac{1}{2} \\ -2 & -1 \\ 4 & 3 \end{bmatrix} =$	10. $2 \begin{bmatrix} 1 & -1 & 0 \\ 6 & 3 & 1 \\ 3 & 2 & 9 \end{bmatrix} =$