

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10

Please **print** your name**Complete each of the following matrix computations.**

1. Compute the sum  $\begin{bmatrix} 1 & 2 & 6 \\ 3 & 9 & -3 \\ 5 & 0 & 2 \end{bmatrix} + \begin{bmatrix} 1 & 2 & 9 \\ 7 & -2 & 0 \\ -12 & -8 & 10 \end{bmatrix} = \begin{bmatrix} 2 & 4 & 15 \\ 10 & 7 & -3 \\ -7 & -8 & 12 \end{bmatrix}$

2. Compute the product  $\begin{bmatrix} 1 & 2 & 6 \\ 3 & 9 & -3 \\ 5 & 0 & 2 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 2 & 6 \\ 3 & 9 & -3 \\ 5 & 0 & 2 \end{bmatrix}$

3. Compute the product  $\begin{bmatrix} 1 & 2 & -4 \\ -2 & -3 & 3 \end{bmatrix} \begin{bmatrix} 2 & -2 \\ 3 & 1 \\ -1 & 2 \end{bmatrix} = \begin{bmatrix} 12 & -8 \\ -16 & 7 \end{bmatrix}$

4. T **F** Matrix multiplication is commutative.