

Name _____

Date _____

Advanced Algebra

Unit 6: Advanced Systems- Matrices Operations

Unit 6 Assignment #9

Find the value of the missing variables:

$$1) \begin{bmatrix} x^2 & 4z \\ 25 & 8 \end{bmatrix} = \begin{bmatrix} 100 & 28 \\ 5a & 4s \end{bmatrix}$$

$$2) \begin{bmatrix} x^{\frac{1}{2}} & 8y \\ 612 & 5x \end{bmatrix} = \begin{bmatrix} 28 & 32 \\ z^5 & 500 \end{bmatrix}$$

Add/Subtract the following matrices:

$$\begin{bmatrix} 5 & -2 \\ 5 & 12 \end{bmatrix} - \begin{bmatrix} -2 & 8 \\ 3 & 12 \end{bmatrix} =$$

Multiply the following Matrix by a scalar, then add.

$$\begin{bmatrix} 12 & 5 \\ 2 & 4 \end{bmatrix} + 3 \begin{bmatrix} 4 & -3 \\ 2 & 1 \end{bmatrix} =$$

Multiply the following matrices:

$$\begin{bmatrix} 3 & 4 \\ 0 & 6 \end{bmatrix} * \begin{bmatrix} 9 & 2 \\ 1 & 5 \end{bmatrix} =$$

$$\begin{bmatrix} 1 & 2 & 5 & 3 \\ 2 & 1 & 0 & 1 \end{bmatrix} \begin{matrix} 1 \\ 2 \\ 3 \\ 4 \end{matrix}$$