

$$\underline{23} \quad \begin{bmatrix} -4 & -2 & 1 \\ 7 & 0 & 0 \\ -1 & -1 & 3 \end{bmatrix} + \begin{bmatrix} -5 & 1 & -2 \\ -9 & -1 & 0 \\ 4 & 0 & 3 \end{bmatrix}$$

$$= \begin{bmatrix} -9 & -1 & -1 \\ -2 & -1 & 0 \\ 3 & -1 & 6 \end{bmatrix}$$

$$\underline{24} \quad \begin{bmatrix} -8 & -1 \\ 2 & 0 \\ 1 & -1 \end{bmatrix} \times \begin{bmatrix} 5 & 0 & -3 \\ -4 & 2 & -1 \end{bmatrix}$$

$$= \begin{bmatrix} -36 & -2 & 26 \\ 10 & 0 & -6 \\ 9 & -2 & -2 \end{bmatrix}$$

$$\underline{25} \quad 3A = \begin{bmatrix} 12 & -3 & 27 \\ -6 & 3 & -9 \\ 0 & 3 & 6 \end{bmatrix}, \quad 2B = \begin{bmatrix} 2 & 4 & -2 \\ -12 & 0 & 0 \\ 0 & 4 & -6 \end{bmatrix}$$

$$3A - 2B = \begin{bmatrix} 10 & -7 & 29 \\ 6 & 3 & -9 \\ 0 & -1 & 12 \end{bmatrix}$$

26 Same method for inverses, check problems done in class.

27 ~~Same~~ Check problems in class.