(a)
$$\begin{bmatrix} 6 \\ 3 \\ 38 \end{bmatrix} = 3 \begin{bmatrix} 2 \\ 1 \\ 11 \end{bmatrix}$$
 (b) $\begin{bmatrix} 48 \\ 12 \\ 24 \end{bmatrix} = 12 \begin{bmatrix} 47 \\ 1 \\ 25 \end{bmatrix}$

$$CG \left(\frac{12}{18} \right) = 6 \left(\frac{2}{3} \right) CG \left(\frac{45}{36} \right) = 9 \left(\frac{4}{11} \right)$$

$$Exercise 2-3$$

$$Exercise 2-3$$

Grercise 2-4

(a)
$$3\left[\frac{1}{2}\right] = \left[\frac{3\times1}{3\times2}\right] = \left[\frac{3}{6}\right]$$

$$(C) \circ \begin{bmatrix} e^{000} \\ -1 \\ 0 \end{bmatrix} = \begin{bmatrix} e^{0000} \\ 1 \times 0 \\ 0 \times 0 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} = 0$$

$$(C) \begin{bmatrix} 2 \\ 1 \end{bmatrix} + \begin{bmatrix} 1 \\ 2 \end{bmatrix} = \begin{bmatrix} 2+1 \\ 1+2 \end{bmatrix} = \begin{bmatrix} 3 \\ 3 \end{bmatrix}$$

(e)
$$\begin{bmatrix} 2 \\ 3 \end{bmatrix} - \begin{bmatrix} 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 2-2 \\ 3-3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$f$$
 $[]$ $[]$ $+ []$ $= []$ $+ []$ $= []$ $= []$