Study Unit 8

Activity 8-8

(a) $A + B = \begin{bmatrix} -1 & 0 \\ 0 & 1 \end{bmatrix} + \begin{bmatrix} 5 & 5 \\ 4 & -1 \end{bmatrix} = \begin{bmatrix} 4 & 5 \\ 4 & 0 \end{bmatrix}$

(b) This addition is impossible because the sizes of the matrices (2 × 2 and 2 × 3) do not correspond.

(a) $A + B = \begin{bmatrix} 2 & 0 & 3 \\ 0 & 7 & 1 \end{bmatrix} + \begin{bmatrix} 1 & 1 & -2 \\ 2 & 0 & 6 \end{bmatrix} = \begin{bmatrix} 3 & 1 & 1 \\ 2 & 7 & 7 \end{bmatrix}$

(b) This addition is impossible because the sizes of the matrices (2 × 2 and 2 × 3) do not correspond.