1. Given the matrices below.
   \[
   A = \begin{bmatrix}
   3 & -4 & 2 \\
   0 & 1 & -5
   \end{bmatrix},
   B = \begin{bmatrix}
   -3 & 6 & -2 \\
   1 & 5 & 7
   \end{bmatrix},
   C = \begin{bmatrix}
   2 & 0 & 5 \\
   -1 & 3 & -4 \\
   1 & 1 & -3
   \end{bmatrix}
   \]

   (a) Calculate \( A + B \)

   (b) Calculate \( 2A + B \)

   (c) \( B \cdot C \)

   (d) \( 3A \cdot 2C \)

2. Solve the system of equations below using matrices.
   \[
   x + y = 4 \\
   2x - y = 5
   \]

3. Carla bought three adult movie tickets and ten child movie tickets and paid $95. Joe went to the same theater and bought two adult movie tickets and seven child movie tickets and paid $65. How much does an adult and a child movie ticket cost?

4. When calculating \( B + C \) in #1, the calculator screen will display an “ERR: DIM MISMATCH” message. What does this mean?