Period:

Use these matrices to perform the indicated functions and answer the problems below.

$$E = \begin{bmatrix} 2 & 5 \\ 6 & -5 \end{bmatrix}$$

$$F = \begin{bmatrix} 7 & -5 & 0 \\ 1 & 3 & -2 \end{bmatrix}$$

$$F = \begin{bmatrix} 7 & -5 & 0 \\ 1 & 3 & -2 \end{bmatrix} \qquad D = \begin{bmatrix} -3 & -2 \\ 0 & 1 \\ 5 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 6 & 2 \\ -7 & 8 \\ 10 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 3 & -3 \\ -4 & 0 \end{bmatrix}$$

$$C = \begin{bmatrix} 3 & -3 \\ -4 & 0 \end{bmatrix} \qquad B = \begin{bmatrix} -12 & 4 & 1 \\ 0 & -2 & 8 \end{bmatrix}$$

1) Calculate E + C 2) Calculate B - F

3) Calculate DC Calculate AC

- Using complete sentences, explain why it is 5) impossible to calculate FC.
- Using complete sentences, explain why it is possible 6) to calculate AB.

- For problem #6, what will be the dimensions of AB?
  - Provide an example when two multiplied matrices 8) will have a solution that is 5x2.