

Given the Matrices:

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

$$B = \begin{bmatrix} 5 & 1 & -1 \end{bmatrix}$$

$$C = \begin{bmatrix} -1 & 2 \\ 1 & -3 \end{bmatrix}$$

$$D = \begin{bmatrix} -2 & 1 & 1 \\ 0 & 1 & 2 \\ 2 & 0 & 0 \end{bmatrix}$$

$$E = \begin{bmatrix} 2 & 5 & 1 \\ 4 & 0 & -1 \end{bmatrix}$$

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

COMPUTE THE FOLLOWING. IF A COMPUTATION IS NOT POSSIBLE, STATE SPECIFICALLY WHY.
NOTE: THE SYMBOL $\bullet$ DENOTES MATRIX MULTIPLICATION.

1. $E - A$

2. $C \bullet F$

3. $D \bullet E$

4. $A \bullet D$

5. $\det(C)$

6. $\det(D)$

7. $B \bullet D$

8. $B + F$

9. $F - C$