

Multiplying Matrices 2 WS

Name \_\_\_\_\_

Given the following matrices, simplify the expressions.

$$A = \begin{bmatrix} 7 & -2 \\ -1 & 0 \end{bmatrix}$$

$$B = \begin{bmatrix} 3 & 7 \\ -2 & 4 \end{bmatrix}$$

$$C = \begin{bmatrix} 1 & -5 \\ -3 & 2 \end{bmatrix}$$

$$D = \begin{bmatrix} 2 & -3 & 1 \\ 4 & 2 & -1 \\ -2 & 3 & -3 \end{bmatrix}$$

$$E = \begin{bmatrix} 4 & 3 & 1 \\ -2 & -1 & -1 \end{bmatrix}$$

$$F = \begin{bmatrix} 6 & 5 & -2 \\ 2 & 4 & -1 \\ 3 & 1 & 4 \end{bmatrix}$$

1.  $AB + BC$
2.  $BE$
3.  $EB$
4.  $3A + C$
5.  $ED$
6.  $DF$
7.  $-2(FD)$
8.  $A^2$
9.  $\frac{1}{2}(AB) - 2(BC)$
10.  $(A + B)E$
11.  $3(AC)$
12.  $(B + C)F$
13.  $BE + E$
14.  $A + 2B - 3C$
15.  $3D - F$