

Multiplying Matrices with a Graphing Calculator

Name: _____

Period: _____

Directions: Type in the following matrices into the calculator and do the calculations.

$$A = \begin{bmatrix} 3 & -5 \\ 2 & 4 \end{bmatrix} \quad B = \begin{bmatrix} -2 & 5 & -4 \\ 0 & 6 & 3 \end{bmatrix} \quad C = \begin{bmatrix} 7 & -3 & 0 \\ 4 & 2 & -5 \end{bmatrix} \quad D = \begin{bmatrix} 3 & 5 & -2 \\ -4 & -9 & 6 \\ 7 & 4 & 0 \end{bmatrix} \quad E = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

1. $AB =$

2. $AC =$

3. $A^2 =$

4. $D^2 =$

5. $A(B+C) =$

6. $(B+C)D =$

7. $DE =$

8. $ED =$

9. $(AC)D =$

10. $[(AB)D]E =$

11. $A(3B) =$

12. $[A(3B)]E =$

13. $A^2B =$

14. $(B+C)D^2 =$

15. $(A^2C)D =$

16. $[A(3B-2C)]D =$