

Precalculus Worksheet #4 Unit 7 page 1 _____

Given matrices A and B below. Perform the indicated operations.

$$A = \begin{bmatrix} 1 & -1 \\ 4 & 3 \end{bmatrix} \quad B = \begin{bmatrix} 2 & -3 \\ -1 & 1 \end{bmatrix}$$

1. $A + B =$

2. $A - B =$

3. $-2A =$

4. $4B =$

5. $2A + 3B =$

6. $5A - 2B =$

7. $AB =$

8. $BA =$

Given matrices C and D below. Find the indicated products.

$$C = \begin{bmatrix} 4 & -1 & -2 \\ -3 & 2 & 5 \end{bmatrix} \quad D = \begin{bmatrix} -5 & 2 \\ 7 & 6 \\ 3 & 8 \end{bmatrix}$$

9. $CD =$

10. $DC =$

Precalculus Worksheet #4 Unit 7 page 2

Given matrix A , find A^{-1} . Show your work neatly organized.

11. $A = \begin{bmatrix} 2 & 7 \\ 1 & 3 \end{bmatrix}$

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