Precalculus Worksheet #4 Chapter 9 page 1 ______ Given matrices A and B below. Perform the indicated operations.

$\mathbf{A} = \begin{bmatrix} & & \\ & & \\ & & \\ & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$	$\begin{bmatrix} 1 & -1 \\ 4 & 3 \end{bmatrix}$	$\mathbf{B} = \begin{bmatrix} 2\\ -1 \end{bmatrix}$	-3 1		
1.	$\mathbf{A} + \mathbf{B} =$			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. $\begin{bmatrix} -5 & -2 \end{bmatrix}$

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

9. CD = 10. DC =

Precalculus Worksheet #4 Chapter 9 page 2 Given matrix A, find A⁻¹. Show your work neatly organized.

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

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