## **Reading the Lesson**

1. For each pair of matrices, give the dimensions of the indicated sum, difference, or scalar product. If the indicated sum, difference, or scalar product does not exist, write *impossible*.

$A = \begin{bmatrix} 3 & 5 & 6 \\ -2 & 8 & 1 \end{bmatrix}$	$B = \begin{bmatrix} -4 & 0 \\ 0 & -5 \end{bmatrix}$	AB =
$C = \begin{bmatrix} 5 & 10 \\ -3 & 6 \\ 4 & 12 \end{bmatrix}$	$D = \begin{bmatrix} -3 & 6 & 0 \\ -8 & 4 & 0 \end{bmatrix}$	BC =
A + D:	<i>C</i> + <i>D</i> :	5B:
-4 <i>C</i> :	2D – 3A:	CD =

## AB, BC, CD are all MULTIPLICATION problems!!!