## MAth on the Fly!



NAME:

DATE:

## **Adding and Subtracting Matrices**

Solve each problem.

$$\begin{bmatrix} 2. & \begin{bmatrix} -8 & 2 \\ 4 & -3 \end{bmatrix} - \begin{bmatrix} 1 & 5 \\ 3 & -2 \end{bmatrix}$$

$$\begin{bmatrix}
0 & -4 \\
-6 & 8 \\
9 & -2
\end{bmatrix} +
\begin{bmatrix}
-3 & 4 \\
2 & -1 \\
-5 & -7
\end{bmatrix}$$

$$\begin{bmatrix}
4_{\bullet}
\begin{bmatrix}
6 & 1 \\
-7 & -3 \\
-8 & 4
\end{bmatrix} -
\begin{bmatrix}
2 & -6 \\
-1 & -9 \\
1 & 7
\end{bmatrix}$$

$$\begin{bmatrix}
1/2 & -4 & 1.6 \\
-0.3 & -3/5 & 2
\end{bmatrix} + \begin{bmatrix}
7/8 & -4 & -2.5 \\
0.1 & 1/10 & -1/9
\end{bmatrix}$$

Find the unknown values in each equation below.

$$\begin{bmatrix}
\mathbf{6.} & \begin{bmatrix} \mathbf{W} & 3 \\ -8 & \mathbf{X} \end{bmatrix} + \begin{bmatrix} 6 & \mathbf{Z} \\ \mathbf{Y} & 4 \end{bmatrix} = \begin{bmatrix} 4 & -6 \\ -1 & 0 \end{bmatrix}$$

$$\begin{bmatrix}
5 & W \\
X & 8
\end{bmatrix} - \begin{bmatrix}
Y & -5 \\
2 & Z
\end{bmatrix} = \begin{bmatrix}
-4 & 2 \\
-8 & 9
\end{bmatrix}$$

## SOLUTIONS

$$\begin{array}{|c|c|c|c|}\hline 1. & -4 & 1 \\ 0 & -2 \\ \hline \end{array}$$

$$\begin{bmatrix} -4 & 1 \\ 0 & -2 \end{bmatrix} \qquad \begin{bmatrix} 2 \end{bmatrix} \qquad \begin{bmatrix} -9 & -3 \\ 1 & -1 \end{bmatrix}$$

$$\begin{bmatrix}
-3 & 0 \\
-4 & 7 \\
4 & -9
\end{bmatrix}$$

$$\begin{bmatrix}
4 & 7 \\
-6 & 6 \\
-9 & -3
\end{bmatrix}$$

$$\begin{bmatrix}
11/8 & -8 & -0.9 \\
-0.2 & -1/2 & 17/9
\end{bmatrix}$$