4.1 Matrix Operations

**Read Example 4 on page 201. Apply that knowledge to solve the following matrix equations for *x* and *y*. Show your work.**

1.) $\left[\begin{matrix}1&14\\-5x&10\end{matrix}\right]= \left[\begin{matrix}y-9&14\\5&10\end{matrix}\right]$

2.) $\left[\begin{matrix}2&3y\\4&-1\end{matrix}\right]+ \left[\begin{matrix}0&-4\\x&-2\end{matrix}\right]= \left[\begin{matrix}2&11\\3&-3\end{matrix}\right]$

3.) $4\left(\left[\begin{matrix}8&0\\-1&2y\end{matrix}\right]+ \left[\begin{matrix}4&-2x\\1&6\end{matrix}\right]\right)= \left[\begin{matrix}48&-48\\0&8\end{matrix}\right]$