$$-x + 4y = 7$$
  
 $9x - 4y = 9$ 

What you'd probably do...

add the equations

$$8x = 16$$
  
 $x = 2$   
 $-2 + 4y = 7$   
 $4x = 9$ 

$$\begin{bmatrix} -1 & 4 & 7 \\ 9 & -4 & 9 \end{bmatrix}$$

$$\begin{cases}
-1 & 4 & 7 \\
9 & -4 & 9
\end{cases} \times R_2 \rightarrow R_2 + R_1,$$

$$R_2 \rightarrow R_2 + R_1,$$

$$R_2 + 9R_1 \qquad \text{in echelon} \qquad \begin{cases}
-1 & 4 & 7 \\
8 & 0 & | 16
\end{cases}$$

$$\begin{cases}
-1 & 4 & 7 \\
0 & 32 & | 72
\end{cases}$$

$$\begin{cases}
-1 & 4 & 7 \\
0 & 32 & | 72
\end{cases}$$

$$\frac{2^{12}}{2R^{2}}$$
  $\begin{bmatrix} -1 & 4 & 7 \\ 0 & 1 & \frac{9}{4} \end{bmatrix}$ 

$$\begin{array}{c} P_{1} \rightarrow (-1)R_{1} \\ \longrightarrow \\ 0 \\ 1 \\ 9/4 \end{array}$$

$$\begin{array}{c} P_{1} \rightarrow P_{1} + 4P_{2} \\ \longrightarrow \\ 0 \\ 1 \\ 9/4 \end{array}$$

$$\begin{array}{c} X = 2 \\ Y = 9/4 \\ Y = 9/4 \end{array}$$