

3.2 Review - Warm - up

4. Solve the linear system by Substitution.

$$\begin{aligned}x &= y - 2 \\ x - 3y &= -14 \\ \boxed{y} - 2 - 3y &= -14 \\ -2y - 2 &= -14 \\ \cancel{-2} \quad \cancel{-2} & \quad \cancel{+2} \\ \hline -2y &= -12 \\ \frac{-2}{-2} & \quad \frac{-12}{-2} \\ y &= 6\end{aligned}$$

$$\begin{aligned}x &= y - 2 \\ x &= 6 - 2 \\ x &= 4\end{aligned}$$

$$\boxed{(4, 6)}$$

5. Solve the linear system by Substitution.

$$\begin{aligned}y &= x - 3 \\ x - y &= -14 \\ x - (x - 3) &= -14 \\ \boxed{\cancel{x} - \cancel{x}} + 3 &= -14 \\ 3 &\neq -14\end{aligned}$$

No Solution