

NAME: \_\_\_\_\_ Score \_\_\_\_\_/5

1. Solve the system using the orderly write-up suggested.

$$\begin{cases} x + 2y = 2 \\ -4x + 3y = 25 \end{cases} \longrightarrow \begin{cases} x = 2 - 2y \\ -4x + 3y = 25 \end{cases}$$

$$\longrightarrow \begin{cases} x = 2 - 2y \\ -4(2 - 2y) + 3y = 25 \end{cases} \longrightarrow \begin{cases} x = 2 - 2y \\ -8 + 11y = 25 \end{cases}$$

$$\longrightarrow \begin{cases} x = 2 - 2y \\ y = 3 \end{cases} \longrightarrow \begin{cases} x = -4 \\ y = 3 \end{cases}$$

The solution set is  $\{(-4, 3)\}$