

Name Kery

Mrs. Roubos

Date _____

8A Period _____

#12

Homework

Solve the equation, and then interpret the result.

$$\begin{aligned} 1) \quad & 3(x-1) - 2x = -2x + 3(x-1) \\ & 3x - 3 - 2x = -2x + 3x - 3 \\ & x - 3 = x - 3 \\ & \underline{-x \quad -x} \\ & \boxed{-3 = -3} \end{aligned}$$

In finitely
many solutions

$$\begin{aligned} 2) \quad & 2 + 7x = x + 8 \\ & \underline{-x \quad -x} \\ & 2 + 6x = 8 \\ & \underline{-2 \quad -2} \end{aligned}$$

$$\begin{aligned} & 6x = 6 \\ & \underline{6 \quad 6} \end{aligned}$$

$$\boxed{x = 1}$$

one solution

$$\begin{aligned} 3) \quad & 4x + 2 = 4x - 13 \\ & \underline{-4x \quad -4x} \end{aligned}$$

$$\boxed{2 \neq -13}$$

NO solutions

$$4) \quad 4(x-2) - 2x = 3x - (x-2)$$

$$4x - 8 - 2x = 3x - x + 2$$

$$\begin{aligned} & 2x - 8 = 2x + 2 \\ & \underline{-2x \quad -2x} \end{aligned}$$

$$\boxed{-8 \neq 2}$$

NO
solutions