

Warm - Up
5/13

Solve and Check

$$\begin{aligned} 8 - 2(9) &= -8 - \frac{y}{7} \\ 8 - 18 &= -8 - \frac{y}{7} \\ -10 &= -8 - \frac{y}{7} \\ +8 & \quad +8 \\ 7(-2) &= -\frac{y}{7} \\ -14 &= -\frac{y}{7} \\ \underline{-14} & \quad \underline{-14} \\ -1 & \quad -1 \\ 14 &= y \end{aligned}$$

$$-10 = -8 - \frac{14}{7}$$

$$-10 = -8 - 2$$

$$-10 = -10$$

5.2.3 Identities, Contradictions, and Equations

Example

Solve. Make sure you include an answer.

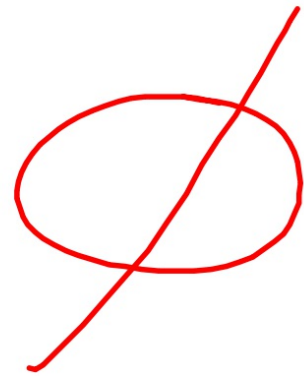
$$\underline{6p} - 4 - \underline{11p} = 14 - 5p$$

$$\begin{array}{r} -5p - 4 = 14 - 5p \\ +5p \quad +5p \end{array}$$

$$0 - 4 = 14 - 0$$

$$-4 = 14$$

, No Solution



Example

Solve. **Make sure you include an answer.**

$$-3y + 2(y - 1) = -2 - y \quad \text{All Real \#s}$$

$$\underline{-3y} + \underline{2y} - 2 = -2 - y$$

$$-y - 2$$

$$+y$$

$$\begin{array}{r} -2 - y \\ +y \\ \hline -2 \end{array}$$

$$0 = 0$$

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Example

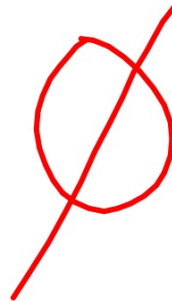
Solve. Make sure you include an answer.

$$-3(y + 1) - 3(y - 1) = -6(y + 1)$$

$$\cancel{-3y} - \cancel{3} - \cancel{3y} + \cancel{3} = -6y - 6$$

$$\cancel{-6y} = \cancel{-6y} - 6$$
$$+6 \quad +6$$

$$0 = -6$$



Homework (due Thu)

p. 144 (30 - 38)