

Extra Practice

Lesson 3-5

(pages 149–154)

Solve each equation. Then check your solution.

- $5x + 1 = 3x - 3$ **-2**
- $-3z + 5 = 2z + 5$ **0**
- $\frac{1}{2}a - 4 = 3 - \frac{1}{4}a$ **$9\frac{1}{3}$**
- $-28 + p = 7(p - 10)$ **7**
- $-4x + 6 = 0.5(x + 30)$ **-2**
- $1.9s + 6 = 3.1 - s$ **-1**
- $2.9m + 1.7 = 3.5 + 2.3m$ **3**
- $\frac{x}{2} - \frac{1}{3} = \frac{x}{3} - \frac{1}{2}$ **-1**
- $\frac{3t + 1}{4} = \frac{3}{4}t - 5$ **no solution**
- $3y - \frac{4}{5} = \frac{1}{3}y$ **$\frac{3}{10}$**
- $-0.2(1 - x) = 2(4 + 0.1x)$ **no solution**
- $6 - 8n = 5n + 19$ **-1**
- $\frac{2}{3}h + 5 = -4 - \frac{1}{3}h$ **-9**
- $6(y - 5) = 18 - 2y$ **6**
- $\frac{1}{3}(b - 9) = b + 9$ **-18**
- $4(2y - 1) = -8(0.5 - y)$ **all real numbers**
- $2.85y - 7 = 12.85y - 2$ **-0.5**
- $3(x + 1) - 5 = 3x - 2$ **all real numbers**
- $\frac{6v - 9}{3} = v$ **3**
- $0.4(x - 12) = 1.2(x - 4)$ **0**
- $\frac{3}{4}x - 4 = 7 + \frac{1}{2}x$ **44**

Solve each proportion.

- $\frac{2}{9} = \frac{k + 3}{2}$ **$-\frac{23}{9}$ or $-2.\bar{5}$**
- $\frac{5m - 3}{4} = \frac{5m + 3}{6}$ **3**
- $\frac{w - 5}{4} = \frac{w + 3}{3}$ **-27**
- $\frac{96.8}{t} = \frac{12.1}{7}$ **56**
- $\frac{r - 1}{r + 1} = \frac{3}{5}$ **4**
- $\frac{4n + 5}{5} = \frac{2n + 7}{7}$ **0**