

Homework Answers

Textbook p. 318

$$27) 4 = 8(y+1)$$

$$4 = 8y + 8$$

$$\begin{array}{r} -8 \\ -8 \end{array}$$

$$\begin{array}{r} -4 = 8y \\ 8 \quad 8 \end{array}$$

$$\boxed{-\frac{1}{2} = y}$$

$$29) 6x - 6 = 3x - 2$$

$$\begin{array}{r} -3x \quad -3x \\ 3x - 6 = -2 \end{array}$$

$$\begin{array}{r} +6 \quad +6 \\ 3x = 4 \end{array}$$

$$\begin{array}{r} 3 \quad 3 \\ x = \frac{4}{3} \end{array}$$

$$\boxed{x = \frac{4}{3}}$$

$$31) b - 0.24 = 0.4 - 3b$$

$$\begin{array}{r} +3b \quad +3b \\ 4b - 0.24 = 0.4 \end{array}$$

$$\begin{array}{r} +0.24 \quad +0.24 \\ 4b = 0.64 \end{array}$$

$$\begin{array}{r} 4 \quad 4 \\ b = 0.16 \end{array}$$

$$33) 3x - 2(x-3) = 15$$

$$\begin{array}{r} 3x - 2x + 6 = 15 \\ x + 6 = 15 \end{array}$$

$$\begin{array}{r} -6 \quad -6 \\ x = 9 \end{array}$$

$$\boxed{x = 9}$$

$$35) 2y - 3(2y-3) = y + 29$$

$$\begin{array}{r} 2y - 6y + 9 = y + 29 \\ -4y + 9 = y + 29 \end{array}$$

$$\begin{array}{r} -y \quad -y \\ -5y + 9 = 29 \end{array}$$

$$\begin{array}{r} -9 \quad -9 \\ -5y = 20 \end{array}$$

$$\begin{array}{r} -5 \quad -5 \\ y = -4 \end{array}$$

$$\boxed{y = -4}$$