Homework Answers

Textbook p. 318

27) $4 = 8(y+1)$
$4 = 8y + 8$
$-8 \qquad -8$
$\dfrac{-4}{8} = \dfrac{8y}{8}$
$\dfrac{1}{2} = y$

29) $6x - 6 = 3x - 2$
$-3x \qquad -3x$
$3x - 6 = -2$
$+6 \quad +6$
$\dfrac{3x}{3} = \dfrac{4}{3}$
$x = \dfrac{4}{3}$

31) $b - 0.24 = 0.4 - 3b$
$+3b \qquad +3b$
$4b - 0.24 = 0.4$
$+0.24 \quad +0.24$
$\dfrac{4b}{4} = \dfrac{.64}{4}$
$b = .16$

33) $3x - 2(x - 3) = 15$
$3x - 2x + 6 = 15$
$x + 6 = 15$
$-6 \quad -6$
$x = 9$

35) $2y - 3(2y - 3) = y + 29$
$2y - 6y + 9 = y + 29$
$-4y + 9 = y + 29$
$-y \qquad -y$
$-5y + 9 = 29$
$-9 \quad -9$
$\dfrac{-5y}{-5} = \dfrac{20}{-5}$
$y = -4$