

page 62 #51, 52, 53, 56, 57-70 (odd)

$$51. x = \frac{3 \pm \sqrt{17}}{4}$$

$$52. x = \frac{-2 \pm \sqrt{7}}{3}$$

$$53. x = 0, -\frac{2}{3}, 7$$

$$56. x = -1 \text{ and } x \approx 1.45$$

$$57. (-6, 3] \quad \leftarrow \text{Number line from -10 to 10 with tick marks every 1 unit. The interval } (-6, 3] \text{ is shaded in pink, with an open circle at } -6 \text{ and a closed circle at } 3. \text{ The } x \text{-axis is labeled } x \text{ at the right end.}$$

$$59. \left(-\infty, \frac{1}{3}\right]$$

$$61. (-\infty, -2] \cup \left[-\frac{2}{3}, \infty\right)$$

$$63. (-\infty, -0.037) \cup \left(\frac{5}{4}, \infty\right)$$

$$65. (-\infty, -2.82) \cup (-1.37, \infty)$$

$$67. x > 3 \text{ or } x < -17$$

$$69. \text{ All real numbers or } (-\infty, \infty)$$