

## SECTION 2.4

1.  $\{x|x < 5\}$     3.  $\{x|x \leq 2\}$     5.  $\{x|x < -4\}$     7.  $\{x|x > 3\}$     9.  $\{x|x > 4\}$     11.  $\{x|x \leq 2\}$     13.  $\{x|x > -2\}$
15.  $\{x|x \geq 2\}$     17.  $\{x|x > -2\}$     19.  $\{x|x \leq 3\}$     21.  $\{x|x < 2\}$     23.  $\{x|x < -3\}$     25.  $\{x|x \leq 5\}$
27.  $\left\{x|x \geq -\frac{1}{2}\right\}$     29.  $\left\{x|x < \frac{23}{16}\right\}$     31.  $\left\{x|x < \frac{8}{3}\right\}$     33.  $\{x|x > 1\}$     35.  $\left\{x|x > \frac{14}{11}\right\}$     37.  $\{x|x \leq 1\}$
39.  $\left\{x|x \leq \frac{3}{8}\right\}$     41.  $\left\{x|x \leq \frac{7}{4}\right\}$     43.  $\left\{x|x \geq -\frac{5}{4}\right\}$     45.  $\{x|x \leq 2\}$     47.  $\{x|-2 \leq x \leq 4\}$
49.  $\{x|x < 3 \text{ or } x > 5\}$     51.  $\{x|-4 < x < 2\}$     53.  $\{x|x > 6 \text{ or } x < -4\}$     55.  $\{x|x < -3\}$     57.  $\{x|-3 < x < 2\}$
59.  $\{x|-2 < x < 1\}$     61.  $\{x|x < -2 \text{ or } x > 2\}$     63.  $\{x|2 < x < 6\}$     65.  $\{x|-3 < x < -2\}$
67.  $\left\{x|x > 5 \text{ or } x < -\frac{5}{3}\right\}$     69.  $\{x|x < 3\}$     71. The solution set is the empty set.    73. The solution set is the set of real numbers.
75.  $\left\{x\left|\frac{17}{7} \leq x \leq \frac{45}{7}\right.\right\}$     77.  $\left\{x\left|-5 < x < \frac{17}{3}\right.\right\}$     79. The solution set is the set of real numbers.
81. The solution set is the empty set.    83. The smallest number is  $-12$ .    85. The maximum width as an integer is  $11$  cm.
87. The TopPage plan is less expensive for more than  $460$  pages per month.    89. A call must last  $7$  min or less.
91. The temperature range is  $32^\circ < F < 86^\circ$ .    93. The amount of sales is  $\$44,000$  or more.    95. The business writes

more than 200 checks per month.

**97.** The range of scores is  $58 \leq x \leq 100$ .

**99.** The three consecutive even integers

can be 10, 12, 14, or 12, 14, 16, or 14, 16, 18.

**101.** The solution is correct.