Chapter 1

Compound Inequalities

1.
$$6x - 3 \le 9$$
 or $-5x + 10 < 30$

3.
$$-2a + 1 \ge 9$$
 or $5a + 2 \ge -28$

5.
$$-2 < 3x + 1 < 10$$

7.
$$14x - 9 \ge 0$$
 and $12x - 13 \le 16$

9.
$$-2x - 2 < 16$$
 or $-13x - 3 \le 13$

11.
$$3x - 2 \le 8$$
 and $-7x + 13 \le 49$

13.
$$7x + 2 > 8$$
 or $-6x - 4 > 19$

$$2. \ \ -0.25 < 0.5x + 1.5 \leq 2.5$$

4.
$$12 \le 7w - 2 < 40$$

6.
$$\frac{1}{2}x - \frac{1}{3} \ge -\frac{1}{6}$$
 or $\frac{2}{7}x \le \frac{1}{10}$

8.
$$-4x + 2 < 1$$
 or $11x - 5 \le 43$

10.
$$-6x + 2 \le 21$$
 and $-7x - 2 \ge 35$

12.
$$12x + 13 > 46$$
 or $-12x - 15 < 24$

14.
$$2x + 9 \le 23$$
 and $4x + 14 \ge -45$

1.1 Compound Inequalities Key