**Solve the inequality, and express the solutions in terms of intervals whenever possible.**

1. |x| < 3 2. |x| ≤ 7 3. |x| ≥ 5 4. |-x| > 2

5. |x + 3| < 0.01 6. |x + 2| + 0.1 ≥ 0.2 7. |2x + 5| < 4

8. |6 – 5x| + 2 ≥ 1 9. |7x + 2|> -2 10. |3x – 9| > 0

**Solve.**

11. (a) |x + 5| = 3 (b) |x + 5| < 3 (c) |x + 5| > 3

12. (a) |x – 3| < 2 (b) |x – 3| = 2 (c) |x – 3| > 2

13. A person’s height will typically decrease by 0.024 inch each year after age 30.

(a) If a woman was 5 feet 9 inches tall at age 30, predict her height at age 70.

(b) A 50-year old man is 5 feet 6 inches tall. Determine an inequality for the range of heights (in inches) that this man will experience between the ages of 30 and 70.