

Chap. 2 Sec 7

Absolute Value Inequalities

1/27/2012

1. Solve for x: $|2x + 17| < 5$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

2. Solve for x: $|2x + 17| \leq 5$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

3. Solve for x: $|2x + 17| > 5$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

4. Solve for x: $|2x + 17| \geq 5$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

5. Solve for x: $|2x + 17| + 4 < 9$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

6. Solve for x: $|2x + 17| + 4 \leq 9$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

7. Solve for x: $|2x + 17| + 4 > 9$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

8. Solve for x: $|2x + 17| + 4 \geq 9$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

9. Solve for x: $|2x + 17| + 9 < 4$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

10. Solve for x: $|2x + 17| + 9 \leq 4$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

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11. Solve for x: $|2x + 17| + 9 > 4$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

12. Solve for x: $|2x + 17| + 9 \geq 4$

a. $-11 < x < -6$

b. $-11 \leq x \leq -6$

c. $x < -11$ or $x > -6$

d. $x \leq -11$ or $x \geq -6$

ae. all reals

be. no solutions

Answers:

1. a

2. b

3. c

4. d

5. a

6. b

7. c

8. d

9. be

10. be

11. ae

12. ae