

## Identifying Solutions

Basic: S2

Choose the correct solution that best describes each inequality.

1)  $|-x| < 7$

- a)  $x > -7$  and  $x < 7$     b)  $x < 5$   
 c)  $x > 7$  or  $x < -7$     d) No solution

2)  $|x| \geq 11$

- a)  $x \geq -11$  and  $x \leq 11$     b)  $x \geq 11$   
 c)  $x \leq -11$     d)  $x \leq -11$  or  $x \geq 11$

3)  $-|x| \leq 1$

- a)  $x \geq 1$  or  $x \leq -1$   
 c)  $x \geq -1$

- b)  $x > -3$  and  $x < 3$   
 d)  $x > 3$

5)  $|x| \leq 12$

- a)  $x \leq -12$   
 c)  $-12 \leq x \leq 12$

- b)  $x > -8$  and  $x < 8$   
 d) No solution

7)  $|x| > -2$

- a)  $x > -2$   
 c)  $x > 2$  or  $x < -2$     d) {All real numbers}

- b)  $x \leq -6$   
 c)  $x \geq -6$     d)  $x \leq -6$  or  $x \geq 6$

9)  $|x| < 15$

- a)  $x > 15$  or  $x < -15$     b)  $x < 15$   
 c)  $x < 15$  and  $x > -15$     d)  $x > 15$

10)  $|-x| \leq 5$

- a)  $x \leq -5$  or  $x \geq 5$     b)  $5 \geq x \geq -5$   
 c)  $x \leq 5$     d) No solution

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