

**Solving Absolute Inequalities**

Basic: S3

Solve each inequality.

1)  $|x| > 13$

2)  $|-x| \leq 17$

3)  $|x| < 20$

4)  $|x| \geq 4$

5)  $|-x| \leq 15$

7)  $|x| \geq 19$

9)  $|x| > 14$

11)  $|x| \geq -8$

12)  $|x| > 18$

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**Solving Absolute Inequalities**

Solve each inequality.

1)  $|x| > 13$

$x < -13$  or  $x > 13$

2)  $|-x| \leq 17$

$-17 \leq x \leq 17$

3)  $|x| < 20$

$-20 < x < 20$

4)  $|x| \geq 4$

$x \leq -4$  or  $x \geq 4$

5)  $|-x| \leq 15$

$-15 \leq x \leq 15$

No solution

7)  $|x| \geq 19$

$x \leq -19$  or  $x \geq 19$

$-16 < x < 16$

9)  $|x| > 14$

$x < -14$  or  $x > 14$

$-5 \leq x \leq 5$

11)  $|x| \geq -8$

**No solution**

12)  $|x| > 18$

$x < -18$  or  $x > 18$

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