

Solving Absolute Inequalities

Two-step: S3

Solve each inequality.

1) $|2x - 10| < 40$

2) $-|x - 5| + 7 > 6$

3) $\frac{|x|}{19} + 47 \geq 4$

4

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5) $|x + 15| - 8 >$

7) $|2x - 1| < 35$

9) $\frac{|x|}{12} - 41 \leq -52$

10) $\frac{|x - 2|}{3} > 5$

Solving Absolute Inequalities

Two-step: S3

Solve each inequality.

1) $|2x - 10| < 40$

$-15 < x < 25$

2) $-|x - 5| + 7 > 6$

$4 < x < 6$

3) $\frac{|x|}{19} + 47 \geq 4$

$x \leq -19$

No solution

5) $|x + 15| - 8 > 2$

$x < -3$

$x \leq 15$

7) $|2x - 1| < 35$

$-17 < x < 18$

$x \leq -5$ or $x \geq 9$

9) $\frac{|x|}{12} - 41 \leq -52$

No solution

10) $\frac{|x - 2|}{3} > 5$

$x < -13$ or $x > 17$

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