

Solving Absolute Inequalities

Two-step: S2

Solve each inequality.

1) $\frac{|x|}{4} - 2 \geq 11$

2) $14|x - 2| < -84$

3) $16|x + 2| \leq 3$

25

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5) $\frac{|x + 8|}{20} < -2$

7) $5|x + 11| > 2$

9) $|x + 10| + 30 \geq 50$

10) $\frac{|x - 1|}{4} < 2$

Solving Absolute Inequalities

Two-step: S2

Solve each inequality.

1) $\frac{|x|}{4} - 2 \geq 11$

$x \leq -52$ or $x \geq 52$

2) $14|x - 2| < -84$

No solution

3) $16|x + 2| \leq 3$ 25

-4

or $x > 12$

5) $\frac{|x + 8|}{20} < -2$

No s

or $x \geq 9$

7) $5|x + 11| > 2$

$x < -16$ or $x > -6$

$-1 < x < 13$

9) $|x + 10| + 30 \geq 50$

$x \leq -30$ or $x \geq 10$

10) $\frac{|x - 1|}{4} < 2$

$-7 < x < 9$

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