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Chapter 2: Equations and Inequalities

Solving Absolute Value Inequalities

Solve each inequality.

$$1) |2x| > 14$$

$$12) \left| \frac{x+5}{4} \right| < 7$$

$$2) |4x| < 16$$

$$13) |x| + 4 \geq 6$$

$$3) |x - 2| \leq 6$$

$$14) |x - 2| - 6 < 5$$

$$4) |x + 3| > 12$$

$$15) 3 + |2 + x| < 5$$

$$5) |x - 9| \geq 32$$

$$16) |x + 7| - 9 < -6$$

$$6) |x| - 5 \geq 11$$

$$17) |x| - 3 > 2$$

$$7) \left| \frac{x}{6} \right| < 4$$

$$18) |x| - 2 > 0$$

$$8) \left| \frac{x-2}{3} \right| > 4$$

$$19) |3x| \leq 15$$

$$9) |x| - 4 < 17$$

$$20) |x + 4| \leq 8$$

$$10) 6 + |x - 8| > 15$$

$$21) |3x| \leq 24$$

$$11) \left| \frac{x}{2} + 3 \right| > 6$$

$$22) |x - 8| - 10 < -6$$