

**Solve the inequality and graph the solution on the real number line. Use your calculator to verify your solution graphically.**

1.  $(x + 2)^2 < 25$

2.  $x^2 + 4x + 4 \geq 9$

3.  $x^3 - 4x \geq 0$

4.  $x^3 - 3x^2 - x > -3$

5.  $3x^2 - 11x + 16 \leq 0$

6.  $x^2 + 3x + 8 > 0$

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$$7. \frac{1}{x} - x > 0$$

$$8. \frac{1}{x} - 4 < 0$$

$$9. \frac{x+6}{x+1} - 2 < 0$$

$$10. \frac{x+12}{x+2} - 3 \geq 0$$