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1.1 The Real Numbers and the Real Line

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1. Real Numbers and the Real Line

1.1. Real Numbers

1.3. Rules for Inequalities

1.4. Types of Intervals in $\mathbb{R}$

Let a and b be real numbers such that $a < b$. The following table lists the nine possible types of intervals.

EXAMPLE 1. Solve: $2x - 1 < x + 3$

Solution:

1.5. Absolute Value

1.6. Properties of Absolute Value

EXAMPLE 8.

Solve: $x^2 - 3x > 4$

Solution:

EXAMPLE 9. Solve: $x^2 - 3x > 4$

Solution: