King Abdulaziz University

0.1 The Real Numbers and the Cartesian Plane

Dr. Hamed Al-Sulami



1. Real Numbers and Coordinate Systems

1.1. Real Numbers

1.2. Properties of Inequalities

1.3. Types of Intervals in $\mathbb R$

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

Example 1. Solve: $-1 \le \frac{4-3x}{2} < 1$

Solution:

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

Solution:

1.4. Absolute Value

1.5. Properties of Absolute Value

1.6. Cartesian Coordinates

1.7. The Distance





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