

Preliminaries and Objectives

The Absolute Value Function



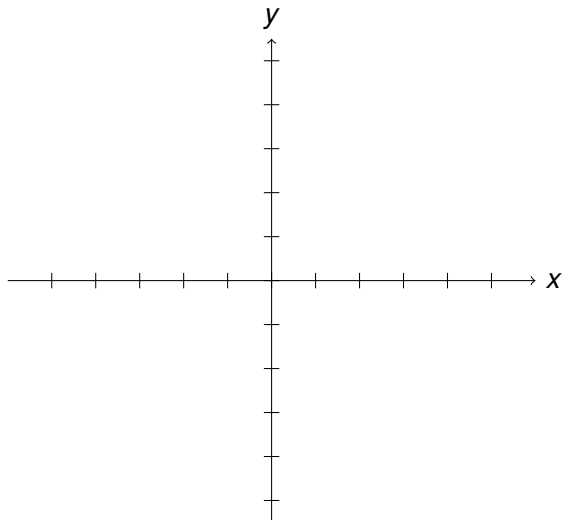
Preliminaries

- Equations of Lines
- Piecewise Defined Functions

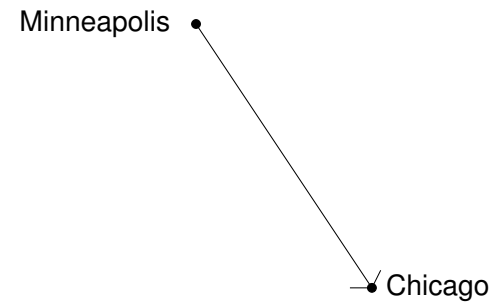
Objectives

- Define the absolute value function

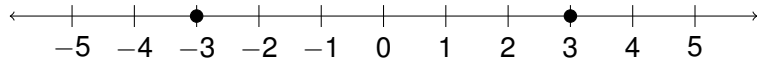
Cartesian Coordinate System



Length-Direction Navigation



Length-Direction Navigation on the Number Line



Definition of Absolute Value

Absolute Value

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

