Chapter 1.2 - Summary
Exploring Absolute Values

Cole Kauder-McMurrich

September 9, 2024

The absolute value of a x is denoted as $|x|$, it's the non negative value of x, aka dropping the sign. $|x| = x$ if $x \geq 0$, $|x| = -x$ if $x < 0$.

Some of the properties of the function is:

- It has even Symmetry
- As $x \to \infty, y \to \infty$
  As $x \to -\infty, y \to \infty$
- $D : \{x \in \mathbb{R}\}$
- $R : \{x \in \mathbb{R} | y \geq 0\}$

1. Evaluate

   a) $|-18| = 18$

   b) $-|-36| = -36$

2. Express $x < -5$ OR $x > 5$ using absolute value notation.
   $x < -5$ OR $x > 5$ can be expressed as $|x| > 5$.

Add graphs to make it feel more complete, otherwise done .