III. Examples (p.91): Exercises #30,32

IV. Absolute Value Inequalities —
1. Notations & graphs:
   see Summary box on p.88
2. Examples (pp.91-92):
   Exercises #54,58,80,82

HW: Read section 1.8 (pp.82-89)
pp.90-92 / Exercises #1-19(odd),25-49(every other odd),53-81(every other odd),83,91,93
I. Function (informal): equation where every value of “x” in the Domain corresponds to “one and only one” value of “y” in the Range...

\[ D = \{ x \mid \text{allowed}^* x\text{-values} \} \]
\[ R = \{ y \mid \text{corresponding} y\text{-values} \} \]

...both D & R are subsets of \( \mathbb{R} \)

* division by zero AND even roots of negative #’s are not allowed...

II. Notation: \( y = f(x) \) is read as “y equals f of x”

the symbolism indicates that “y” is a function of “x,”

\( i.e. \), the equation belongs to this special category of equations which satisfy the criteria (I) above
III. Examples (pp.113-114): Exercises #4, 6, 12, 14, 16, 26-36 (even)

HW: pp.113-114 / Exercises #3-15 (odd), 25-35 (odd)
Read section 2.1 (pp.106-113)