

9/22 Notes

QOB: 2b, c, d

Warm up

1. What does absolute value mean?
2. solve for x

a. $7|x-5| = 56$

b. $\sqrt{x-3} = 9$

c. $4 + 2(x-1)^2 = \del{204} 204$

Topic: 4.1 describing graphs

- investigation on p186 "graph a story"
 - * remind students to recognize plateaus/constant pieces

in word problems

$$y = m \cdot x + b$$

↑
continual amount
i.e. fee, income,
cost

↑ starting value
beginning fee

- if time example A p184

HWIS

Common misconceptions

absolute value almost always has two solutions.

$(x+1)^2 \neq x^2+1$ you cannot just square

both you MUST foil.

→ but when solving for x do not foil,
square root both sides

do not distribute with abs. value,

get it on it's own then solve.

$$\text{ex. } \frac{3|x-1|}{3} = \frac{12}{3}$$

$$|x-1| = 4$$



$$x-1=4$$

$$x-1=-4$$

$$x=5$$

$$\text{OR } x=-3$$