Bell Work

Solve and graph for x:

$$16 < \frac{2x}{5} + 12$$

Solve for x:

$$2x - 6 - 12x + 3 = 8x + 11$$

From last time…

Pass Back Quiz

Go over any questions

Page 37 homework questions

From Last Time...

From Last Time

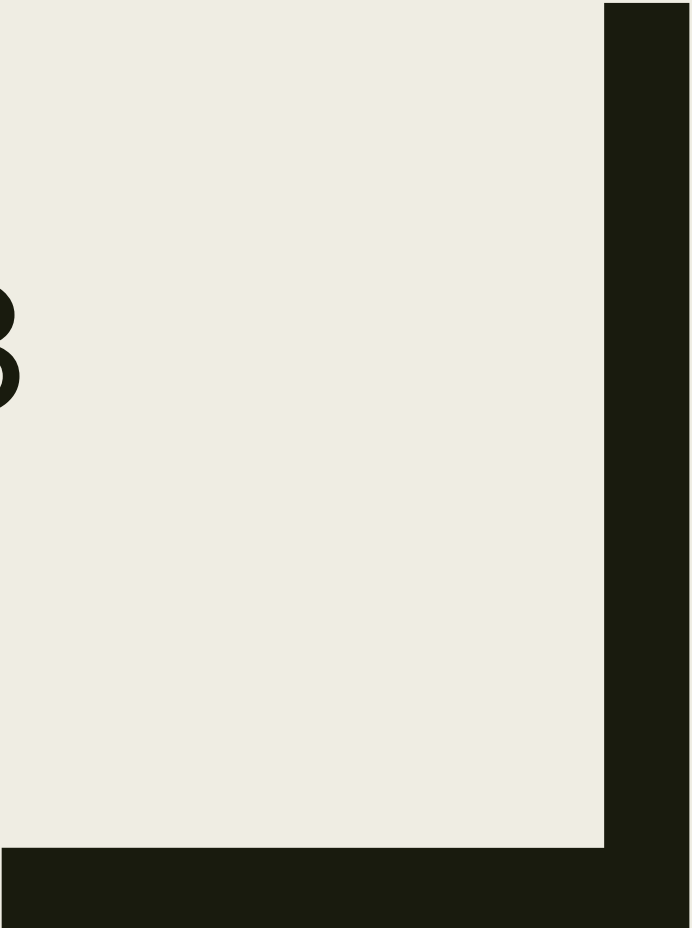Page 37-38 #3-5, 10, 27, 31, 35, 44

Mixed Review

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ALGEBRA 3

Day 10

Chapter 1 Section 6
Absolute Value Equations and Inequalities

Objective: To write and solve equations and inequalities involving absolute value

Quick Review Absolute Value

■ Absolute Value → A numbers distance from zero (distance is always positive) identified with the | | symbol

For Example:

|7| = |-7| = 7 because both are 7 away from zero

Simplify: |-2.4| and |19|

How does this change if we put a variable inside the brackets?

1.6 Absolute Value Equations and Inequalities

Solve for x:

$|x| = 2$

Solve for x:

$|3x + 8| = 20$

Solve for x:

$6|\frac{1}{2}x - 1| + 3 = 33$

Solve for x:

$|2x + 19| + 12 = 8$

1.6 Absolute Value Equations and Inequalities

Solve for x:

$|x| < 2$

Solve for x:

$2|x + 3| - 1 > 7$

Solve for x:

$6|\frac{1}{2}x - 1| + 3 > 33$

Solve for x:

$|2x + 1| - 12 \leq 8$

Quick Check for Understanding

■ If a variable is inside of |absolute value| how many answers will you have and why?

For Next Time…

For Today

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Mixed Review

Page 48 #96, 99