ALGEBRA II
Chapter 1 section 7
Solve Absolute Value Equations and Inequalities
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FOCUS:
How are absolute value equations and inequalities like linear equations and inequalities?

VOCAB:
Absolute Value:

Extraneous Solution:

WARM – UP:

Solve the equation or inequality.

1. $3x + 15 = -42$ _____

2. $5x - 8 \leq 7$ _____

3. $2x + 1 < -3$ or $2x + 1 > 5$

4. In the next two weeks you need to work at least 30 hours. If you can work h hours this week and then twice as many hours next week, how many hours must you work this week?

NOTES:

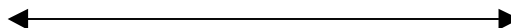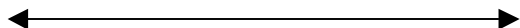Solve. Check for extraneous solutions.

$| 2x - 9 | = 15$ 　　　　　　　　　　$| 4x + 12 | = 28$

$| 4x + 10 | = 6x$

Solve. Then graph the solution.

$| 3x - 7 | \geq 5$ $| 2x - 7 | > 1$

$\longleftrightarrow$ $\longleftrightarrow$

A food manufacturer specifies that every family - size box of cereal should have a net weight of 25 ounces, with a tolerance of 1.2 ounces. Write and solve an absolute value inequality that describes the acceptable net weights for the cereal in a family - size box.

You have found that your new winter coat is comfortable to wear when the outdoor temperature is between 10ºF and 42ºF, inclusive. Write an absolute value inequality for this temperature range, where t represents the temperature in degrees Fahrenheit.

Let's see if you comprehended what we worked on in class…

Try _____ for homework