2-8.notebook October 16, 2013

Journal Entry:
-Write an absolute value function
that has at least 2 transformations
from the parent function. Describe the
transformations, give the axis of symmetry
and the vertex. Then graph the function.

Section 2-8 Two-Variable Inequalities

Students will be able to -graph 2-variable inequalities

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If you are given a gift card that has a value of \$50 and you want to spend as much of it as possible in one shopping trip. You want to stock up on your favorite snacks;

How can we show all possible combinations that you can buy?

O O O O PINK PINK



\$5.25 5,25x +3y < 50 \$3.00

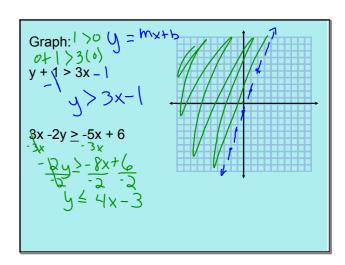
'as much as possible' indicated that we needed to use an inequality.

linear inequality- an inequality in two variables whose graph is a region bounded by a line.

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Separated into 2
half-planes:
-solutions
-nonsolutions

to determine where
to shade, a test point
is used (cannot be on the boundary line)



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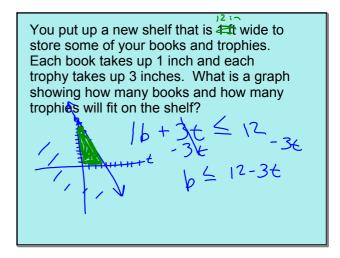
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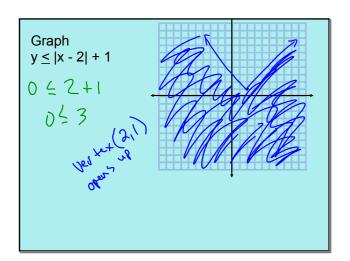
You can also use the inequality to show which side to shade (once into slope-intercept form)

y > above the line

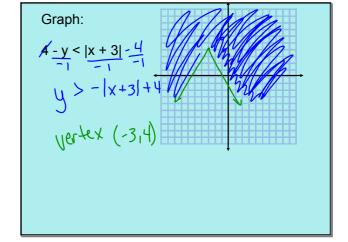
y < below the line



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Hwk: pg 118 - 120 #14 - 26 (every 4th) #28 - 46 evens

Quiz tomorrow over 2.5 - 2.8

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