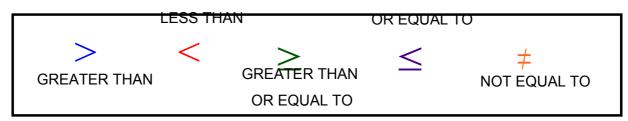
Untitled.notebook February 07, 2018



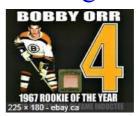
Linear Inequalities:

Inequality sign - could be one of the following...

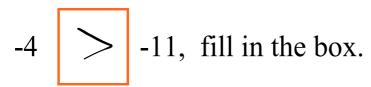


When solving an in-equation, all the steps are the same EXCEPT when it comes to isolating...

4 \(\) 11, fill in the box.



Now divide both by -1





RULE: If you multiply or divide by a negative, reverse the inequality sign!!!

Untitled.notebook February 07, 2018

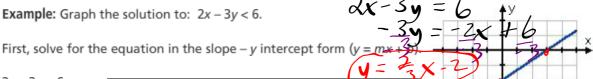
Favorite Numbers... What's Sheldon's???



NOTES - Graphing a Linear Inequation.docx

When the solution set to a linear inequality is continuous and the sign does not include equality, use a dashed line for the boundary and shade the solution region.

Example: Graph the solution to: 2x - 3y < 6.

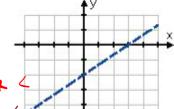


$$2x - 3y < 6$$

 $-3y < -2x + 6$
 $y > (2/3)x - 2$

Find the "equals" part, which is the line y = (2/3)x - 2. It looks like this:

But this example is a strict inequality. That is, it's only "y greater than." We denote strict inequalities on the number line (such as x > 5) by using an open dot instead of a closed dot. In the case of these linear inequalities, the notation for a strict inequality is a dashed line. So the boundary line of the solution region actually looks like this:

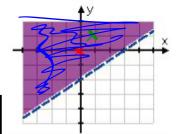


STEP 2: Decide on dashed or solid

By using a dashed line, we can still identify the boundary line, but the dashed line indicates that the boundary line isn't included in the solution. Since this is a "y greater than" inequality, we will shade above the line, so the solution looks

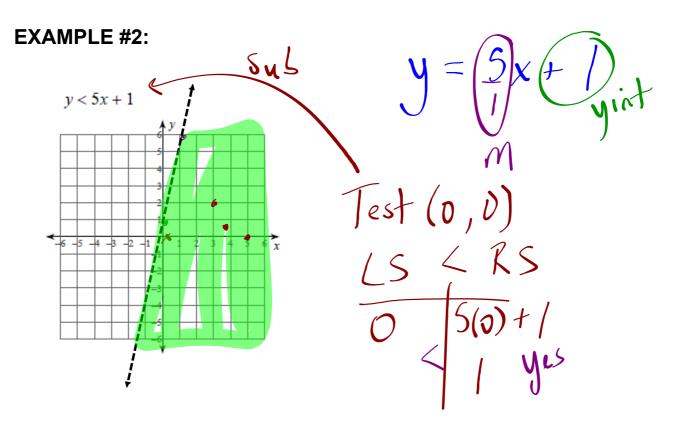


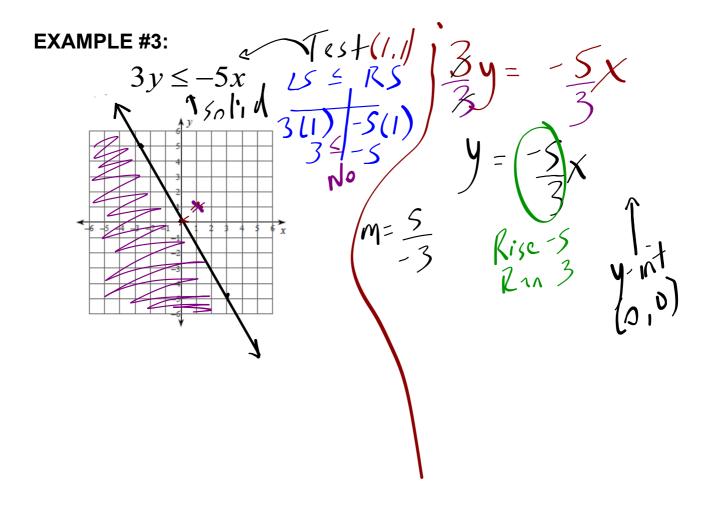
STEP 4: Shade



VIDEO - Graphing Inequalities

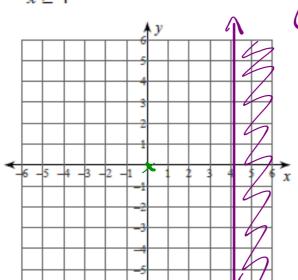
Click HERE to watch the video!!!



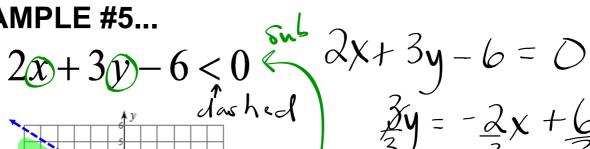


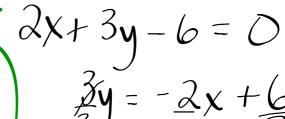


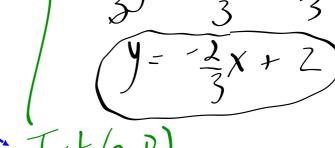


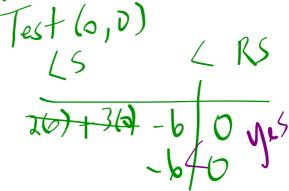


EXAMPLE #5...





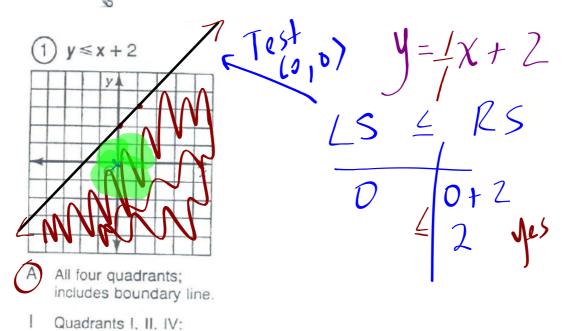


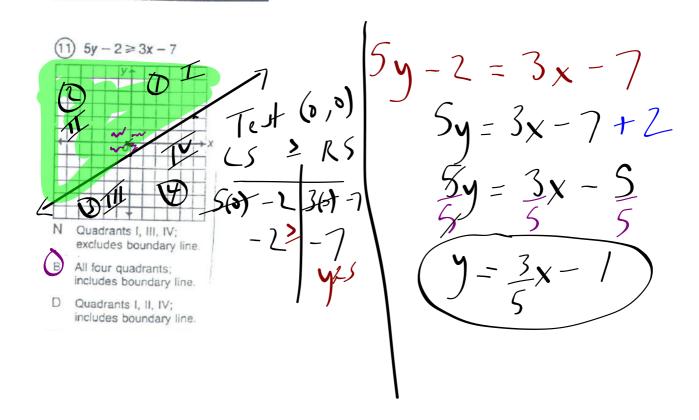


HOMEWORK...

includes boundary line

Puzzle Worksheet - Graphing Linear Inequalities with Two Variables.pdf





NOTES - Graphing a Linear Inequation.docx

Puzzle Worksheet - Graphing Linear Inequalities with Two Variables.pdf

Worksheet - Graphing Linear Inequalities.pdf