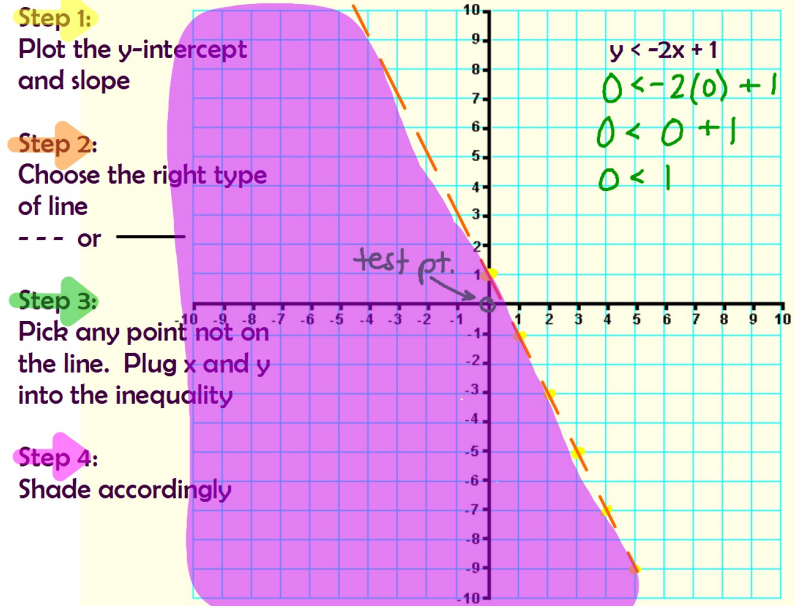


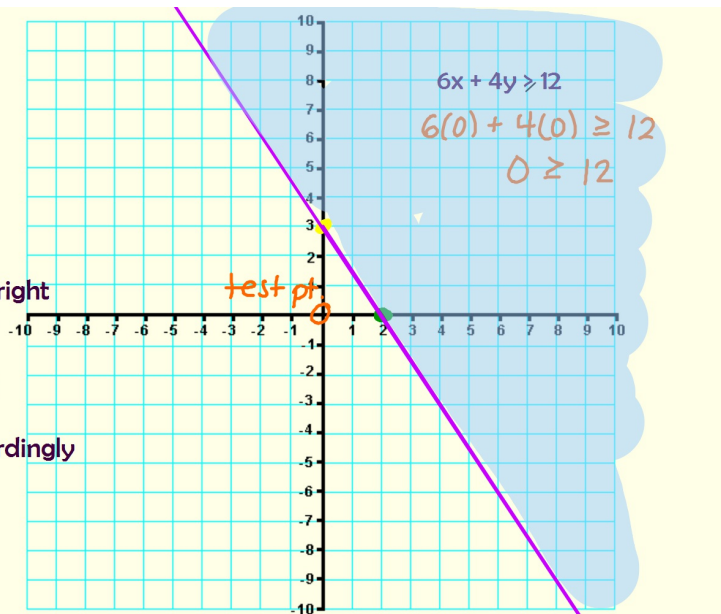
7.5 Linear Inequalities

$<$ and $>$ are graphed with an open circle on a number line, remember?
So $<$ and $>$ are graphed with an "open" line on a coordinate plane. - - - - -

\leq and \geq are graphed with a closed circle on a number line, remember?
So \leq and \geq are graphed with a "closed" line on a coordinate plane. _____



- Step 1:**
Graph the y-intercept
- Step 2:**
Graph the x-intercept
- Step 3:**
Choose the right type of line
- Step 4:**
Test a point
- Step 5:**
Shade accordingly



Suppose you plan to spend no more than \$24 on meat for a cookout. At your local market, hamburger costs \$3.00 per pound and chicken wings cost \$2.40 per pound. Find three possible combinations of hamburger and chicken wings you can buy.

y

$$3x + 2.4y \leq 24$$

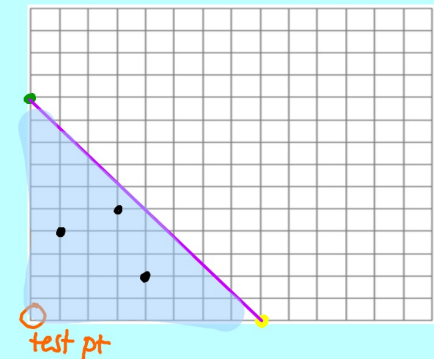
$$3(0) + 2.4(0) \leq 24$$

$$0 \leq 24$$

$$(1, 4)$$

$$(4, 2)$$

$$(3, 5)$$



Homework

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Do **NOT** change standard form to slope-intercept form (just graph the x- and y-intercepts!)