Section 3.4: Linear Inequalities and Their Graphs

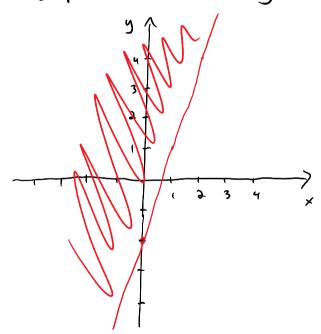
Monday, October 21, 2013

linear inequality:

Ax + By (S) C called also be > 2 <

example:

graph the inequality $y \ge 3x - a$



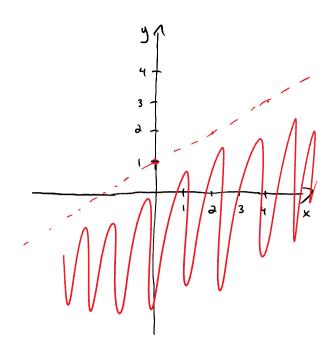
test-point method: now, take a test point (0,0) and plug into inequality:

0 > -2 true

so, shade the side of the line containing the kst point

if we were to graph y > 3x - 2(no "equals to"), the points on the line aren't included in the solution, so we'd graph a dolled line instead

example: sketch the graph of y < 5x+1



1est point (0,0)

if you prefer, can instead of "test point method" use:

for y > mx+b, shade above the line
y < mx+b, "below"