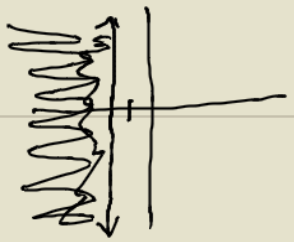
1, 2, 3, ... IS
1.2, 2.7

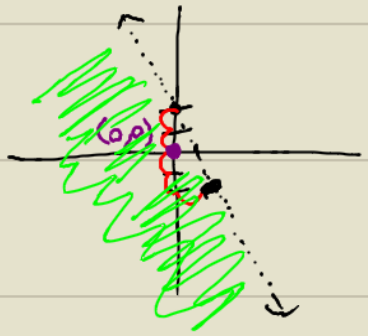
#1 $y > 3$

#2 $x \leq -2$



NOTE: $<$ or $>$: DOTTED LINE
$\leq$ or $\geq$: SOLID LINE

#3 $y < -4x + 2$



STEP 1: PRETEND INEQUALITY SYMBOL IS AN ='S AND GRAPH IT

$y = -4x + 2$

$m = \frac{-4}{1}$ — DOWN 4, RIGHT 1 y-INT: 2

STEP 2: PICK A TEST CASE (POINT), PLUG IT INTO INEQUALITY THEN:

IF IT IS TRUE: SHADE THE SIDE WHERE THE TEST CASE IS

IF IT IS FALSE: SHADE OTHER SIDE

$y < -4x + 2$ $(0,0)$ x y

$0 < -4(0) + 2$

$0 < 2$ TRUE

NOTE: $>$ or $\geq$

$<$ or $\leq$

#4 $-2x + y \geq -3$

$y \geq 2x - 3$

#5 $\frac{1}{2}x - \frac{4}{3}y \leq 1$

$\frac{3}{6}\left(\frac{1}{2}x\right) - \frac{2}{6}\left(\frac{4}{3}y\right) \leq 6(1)$

$3x - 8y \leq 6$

$-8y \leq -3x + 6$

$\frac{-8}{-8}y \geq \frac{-3}{-8}x + \frac{6}{-8}$

$y \geq \frac{3}{8}x - \frac{6}{8}$

SOLID LINE