HW Page 56

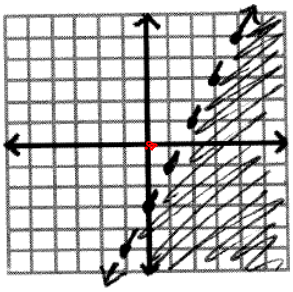
Class Problems:

1. $y < 2x - 3$

$0 < 2(0) - 3$

$0 < -3$

False

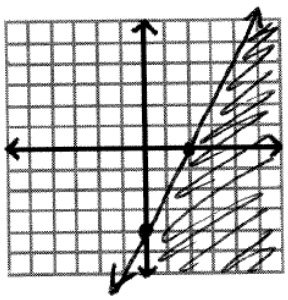


2. $-4x + 2y \leq -8$

$-4(0) + 2(0) \leq -8$

$0 \leq -8$

False

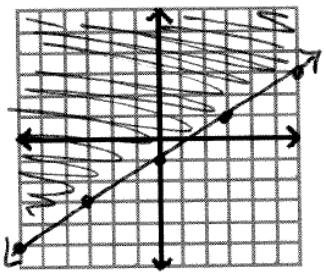


3. $y \geq \frac{2}{3}x - 1$

$0 \geq \frac{2}{3}(0) - 1$

$0 \geq -1$

True

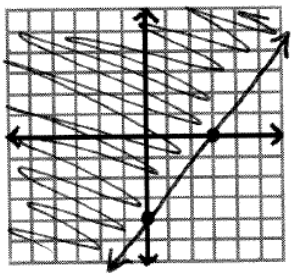


4. $4x - 3y \leq 12$

$4(0) - 3(0) \leq 12$

$0 \leq 12$

True



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(0, 0)

x	y
0	-3
2	0

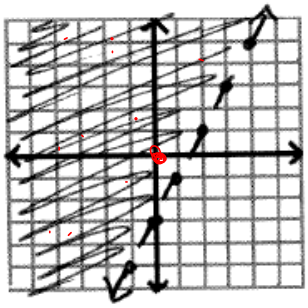
(0, -3)
(2, 0)

5. $y > 2x - 3$

$0 > 2(0) - 3$

$0 > -3$

True

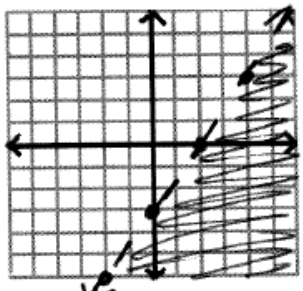


6. $6x - 4y > 12$

$6(0) - 4(0) > 12$

$0 > 12$

False

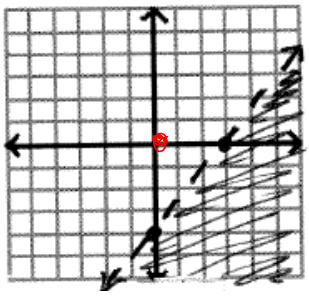


7. $-8x + 6y < -24$

$-8(0) + 6(0) < -24$

$0 < -24$

False

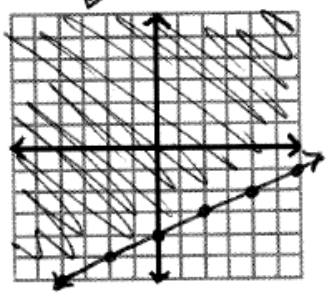


8. $y \geq \frac{1}{2}x - 4$

$0 \geq \frac{1}{2}(0) - 4$

$0 \geq -4$

True



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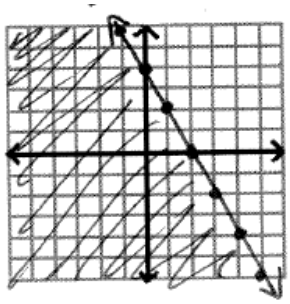
9. $y \leq -2x + 4$

$0 \leq -2(0) + 4$

$0 \leq 4$

True

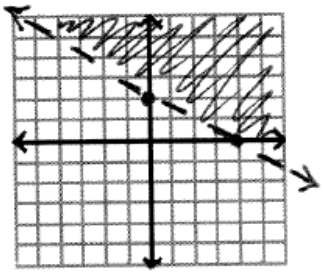


10. $-2x - 4y < -8$

$-2(0) - 4(0) < -8$

$0 < -8$

False



(6,0)
$3(6)-2(0)<-4$
$18<-4$
false

Algebra 1 – WH
Graphing Linear Inequalities

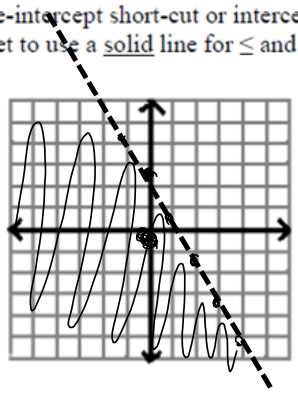
name _____
date _____ Pd

Graph each line from slope-intercept short-cut or intercepts. Use test point (0,0) to determine where to shade the inequality. Don't forget to use a solid line for ≤ and ≥ and a dashed line for < and >.

1. $y < -2x + 3$

$m = -2$
$b = 3$

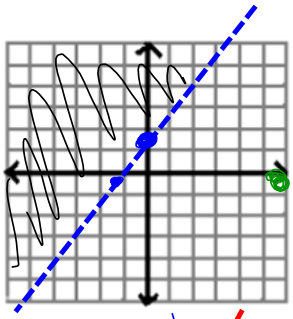
$0 < -2(0) + 3$
$0 < 3$
true



2. $3x - 2y < -4$

x	y
0	2
-4	0

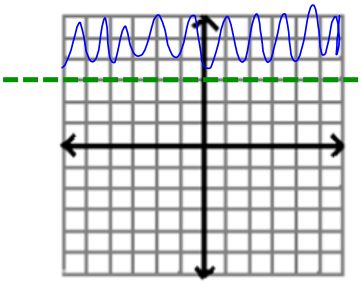
$3(0) - 2(0) < -4$
$0 < -4$
false



3. $y > 3$

x y
(0,0)

$0 > 3$
false



4. $y > 2x + 0$

$m = 2$ $b = 0$

(-1,0)
x y

$0 > 2(-1)$
$0 > -2$
true