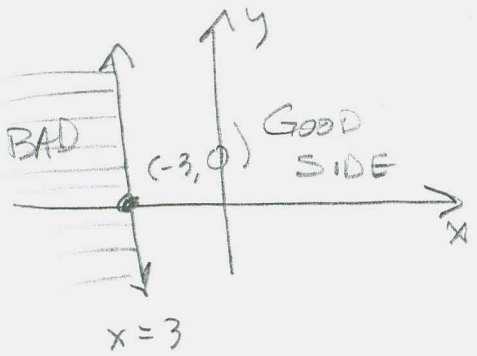
099 § 3.7 #5 2, 5, 10, 11, 15, 44-46

#46 is a union. I wanted the intersection.

#s1-12 Graph each inequality.

(2) $x > -3$



(5) $3x+y>6$ (Don't sweat the dashed lines)

$3x+y=6$

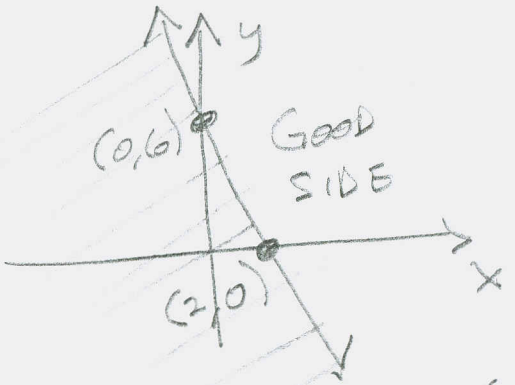
x	y
0	6
2	0

(0,0) ?

$3(0)+0>6$?

$0>6$?

No. (0,0) BAD



(10) $2x+6y \leq 12$

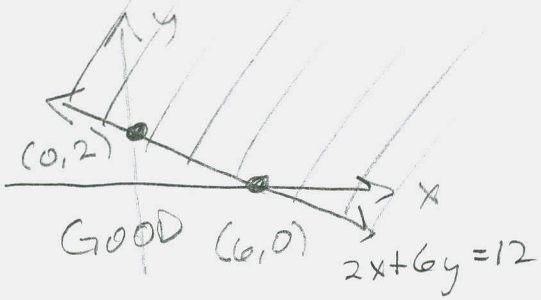
$2x+6y=12$

x	y
0	2
6	0

(0,0) ?

$0 \leq 12$? Yes

(0,0) GOOD



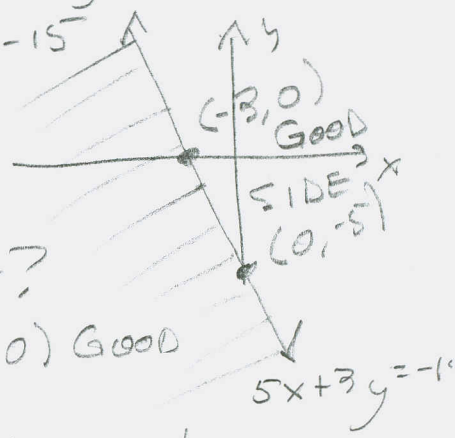
(11) $5x+3y>-15$

$5x+3y=-15$

x	y
0	-5
-3	0

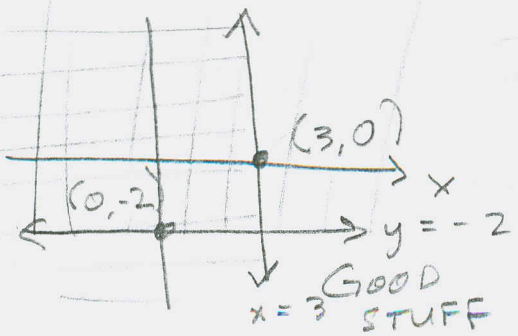
$0>-15$?

Yes. (0,0) GOOD

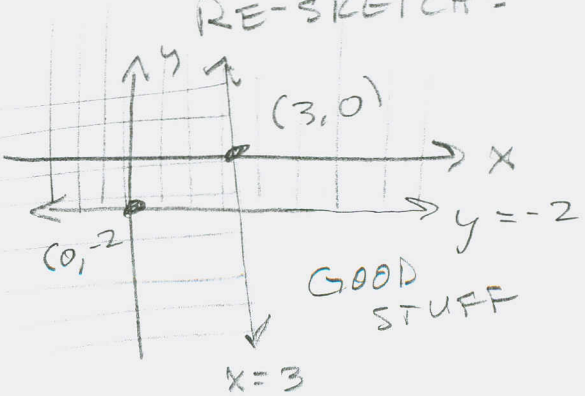


#s 15-22 Graph each ~~union~~ or intersection

(15) $x \geq 3$ AND $y \leq -2$



RE-SKETCH:



099 §3.7 #s 44-46

~~#s~~ 23-46 Graph each inequality (or system of inequalities). INSTRUCTOR SAYS INTERSECTIONS are what matter.

(44) $x+y \leq 10$ AND $3x-6y \geq 12$

$x+y=10$

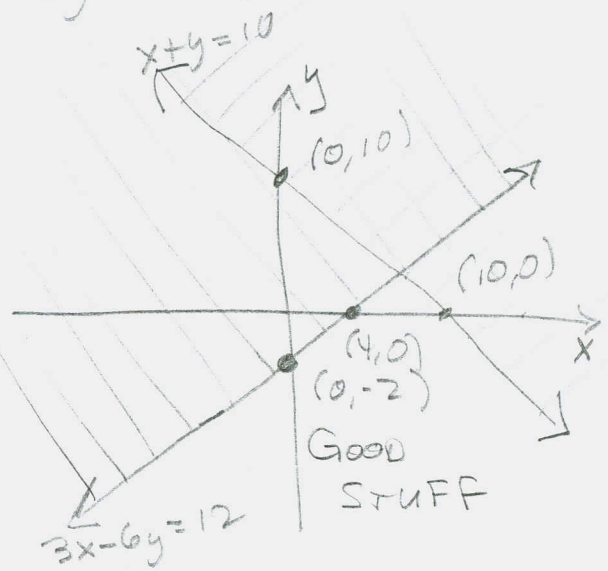
x	y
0	10
10	0

$0 \leq 10$?
Yes
(0,0) GOOD

$3x-6y=12$

x	y
0	-2
4	0

$0 \geq 12$?
NO
(0,0) BAD



(45) $2x-y > 3$ AND $x > 0$

$2x-y=3$

x	y
0	-3
$\frac{3}{2}$	0

$0 > 3$? No
(0,0) BAD