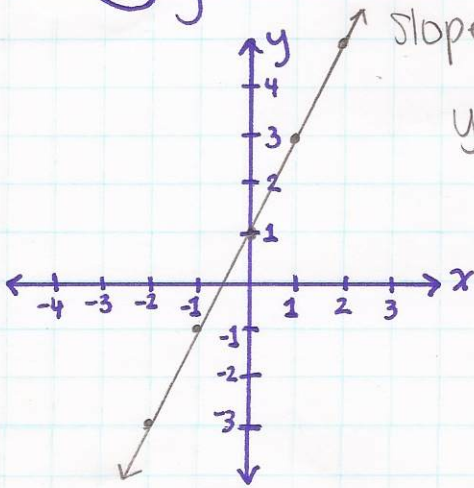


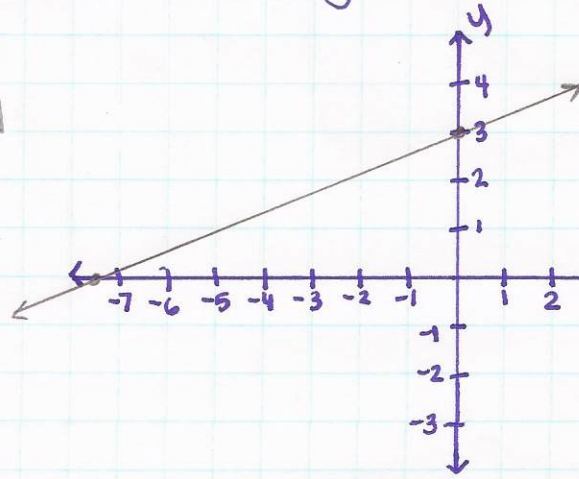
Algebra 1: Graphing Practice (Mixed)

Ⓟ $y = 2x + 1$



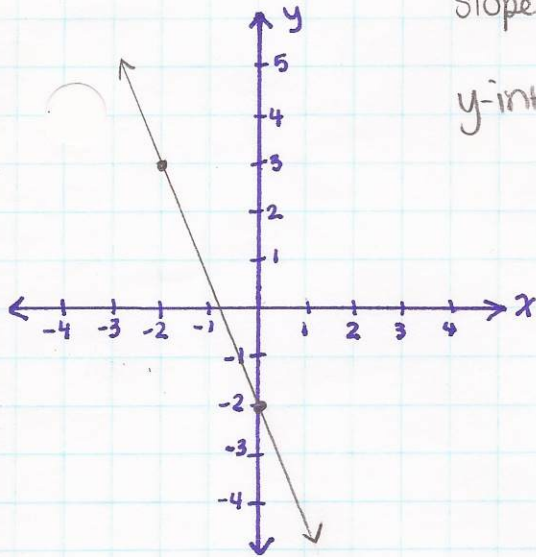
Slope = $\frac{2}{1}$
y-intercept = 1

Ⓛ $-2x + 5y = 15$



x-intercept
 $y = 0$
 $-2x + 5(0) = 15$
 $-2x = \frac{15}{-2}$
 $x = -7.5$
 $(-7.5, 0)$
y-intercept
 $x = 0$
 $-2(0) + 5y = 15$
 $\frac{5y}{5} = \frac{15}{5}$
 $y = 3$
 $(0, 3)$

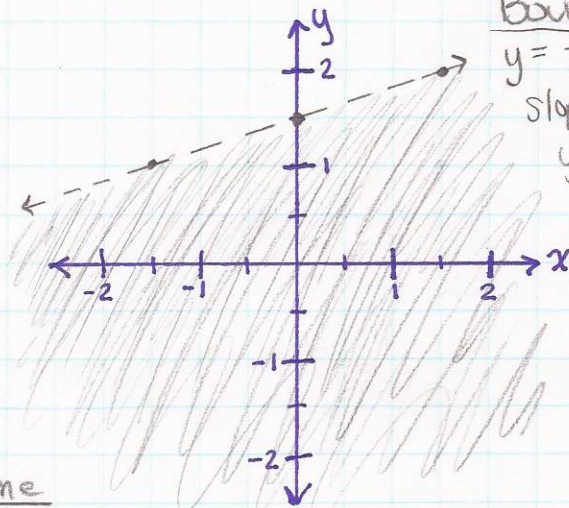
ⓑ $y = -\frac{5}{2}x - 2$



Slope = $-\frac{5}{2} = -\frac{5}{2}$ or $-\frac{5}{2}$

y-intercept = -2

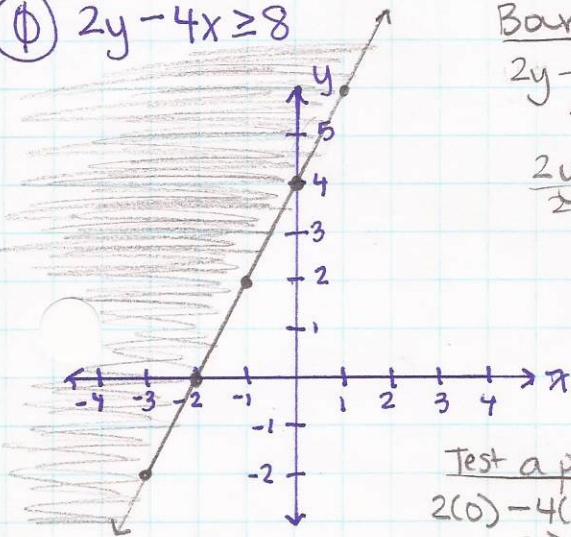
Ⓢ $y < \frac{1}{3}x + \frac{3}{2}$



Boundary Line
 $y = \frac{1}{3}x + \frac{3}{2}$
Slope = $\frac{1}{3}$
y-intercept = $\frac{3}{2} = 1.5$

Test a point
 $(0, 0)$
 $y < \frac{1}{3}x + \frac{3}{2}$
 $0 < \frac{1}{3}(0) + \frac{3}{2}$
 $0 < \frac{3}{2} \checkmark$

Ⓣ $2y - 4x \geq 8$



Boundary Line

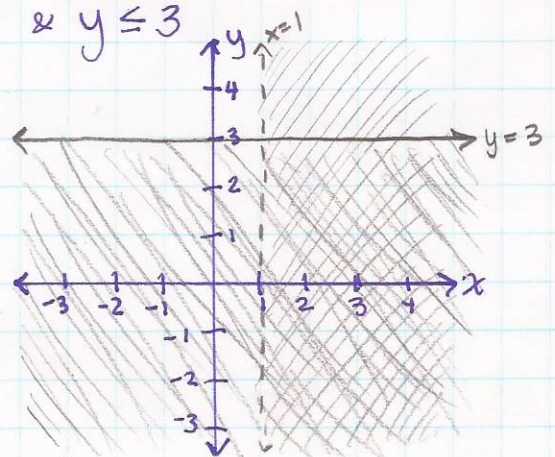
$$\begin{aligned} 2y - 4x &= 8 \\ +4x &+4x \\ \hline 2y &= 4x + 8 \\ \frac{2y}{2} &= \frac{4x + 8}{2} \\ y &= 2x + 4 \end{aligned}$$

Slope = $\frac{2}{1}$

y-intercept = 4

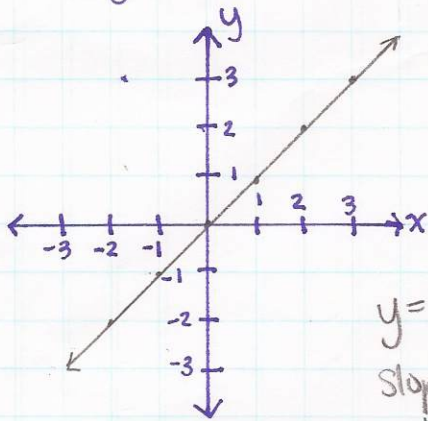
Test a point $(0, 0)$
 $2(0) - 4(0) \geq 8$
 $0 \geq 8$ X no.

ⓔ $x > 1$ & $y \leq 3$



Algebra 1: Graphing Practice (Mixed) - page 2

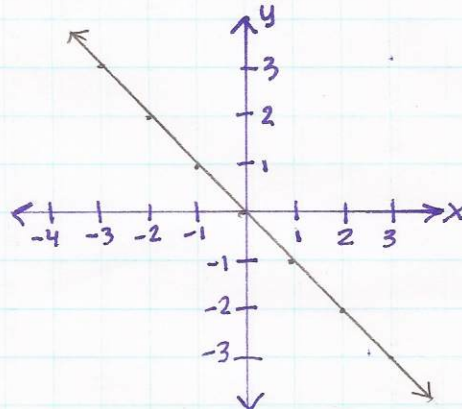
⊗ $y = x$



x	y
0	0
1	1
2	3
-1	-1
-2	-2

$y = x + 0$
 Slope = 1
 y-intercept = 0

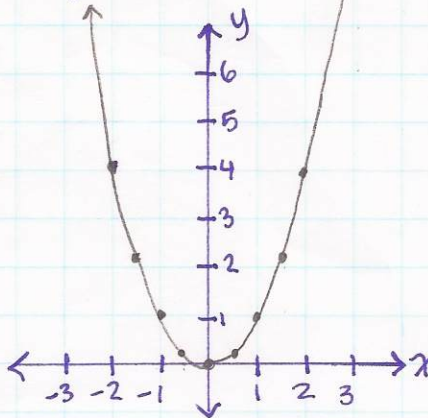
Ⓟ $y = -x$



x	y
-2	2
-1	1
0	0
1	-1
2	-2

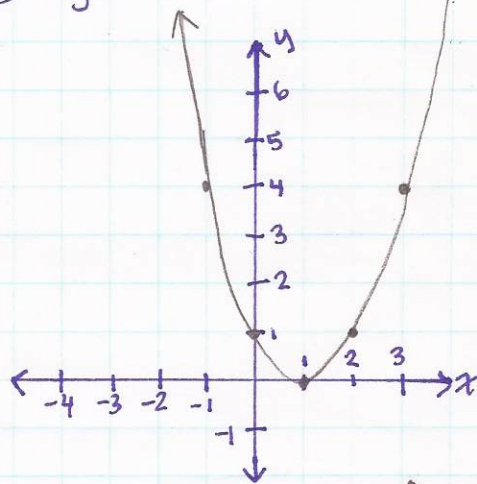
$y = -x + 0$
 Slope = -1
 y-intercept = 0

⊗ $y = x^2$



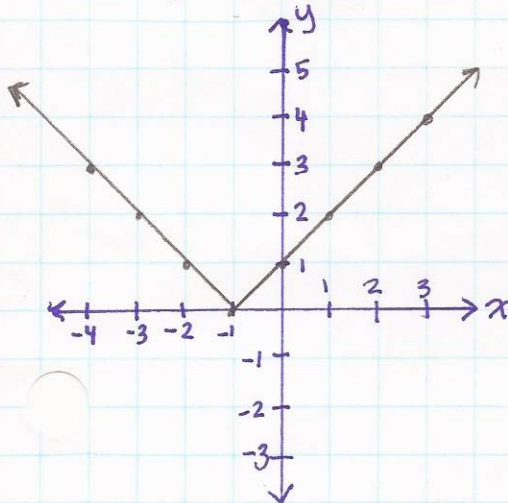
x	y
-3	9
-2	4
-1	1
0	0
1	1
2	4
3	9
1/2	1/4
-1/2	1/4
1.5	2.25
-1.5	2.25

Ⓟ $y = x^2 - 2x + 1$



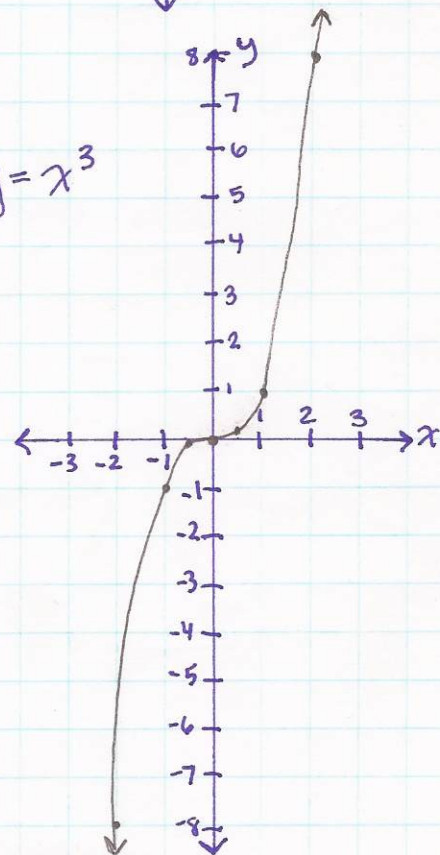
x	y
-3	16
-2	9
-1	4
0	1
1	0
2	1
3	4
4	9

♥ $y = |x + 1|$



x	y
-3	2
-2	1
-1	0
0	1
1	2
2	3
3	4
-4	3
-5	4

★ $y = x^3$



x	y
-3	-27
-2	-8
-1	-1
0	0
1	1
2	8
3	27
1/2	1/8
-1/2	-1/8