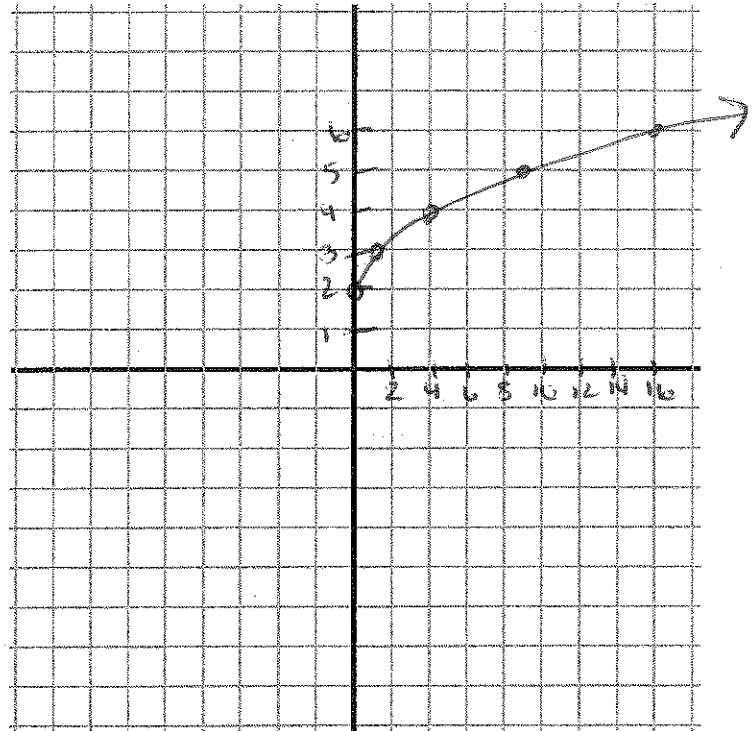


# Rules!

1.  $y = \sqrt{x} + 2$

x	y
0	2
1	3
4	4
9	5
16	6



2.  $y = |x + 2|$

$$|-5+2| = 3$$

$$|-4+2| = 2$$

$$|-3+2| = 1$$

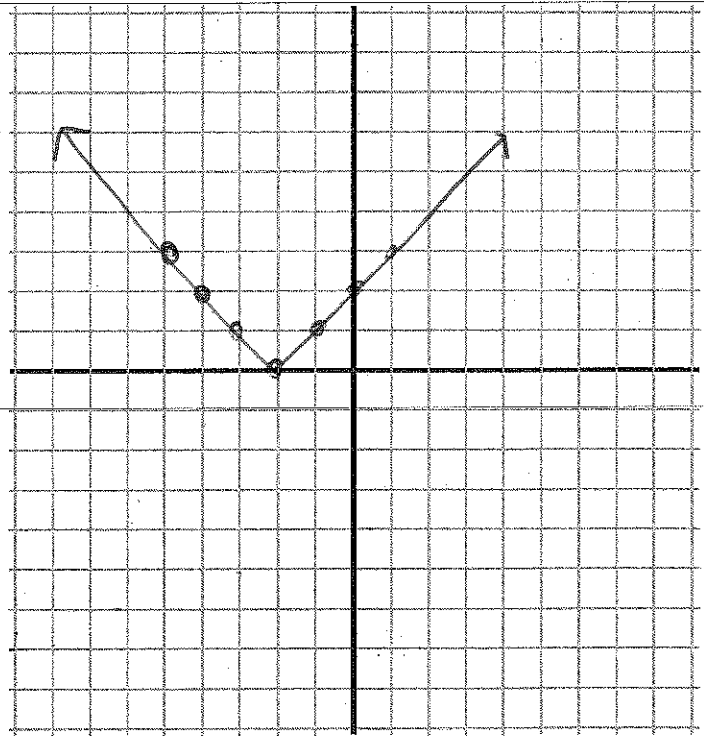
$$|-2+2| = 0$$

$$|-1+2| = 1$$

$$|0+2| = 2$$

$$|1+2| = 3$$

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



3.  $y = x^3$

x	y
-5	-125
-3	-27
-1	-1
0	0
1	1
3	27
5	125

$(-5)^3 = -125$

$(-3)^3 = -27$

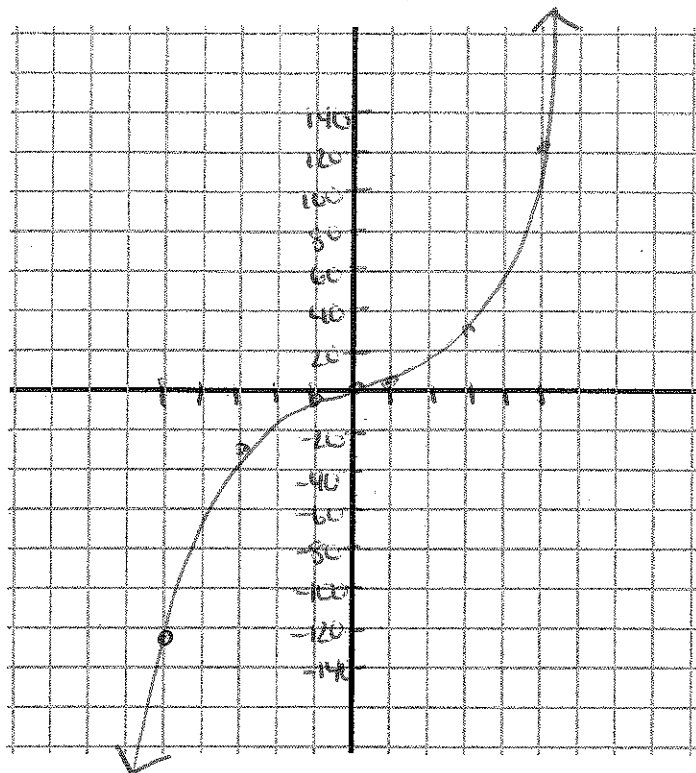
$(-1)^3 = -1$

$(0)^3 = 0$

$1^3 = 1$

$3^3 = 27$

$5^3 = 125$



4.  $y = -x^2$

x	y
-5	-25
-3	-9
-1	-1
0	0
1	-1
3	-9
5	-25

$-(-5)^2$

$-25$

$-(-3)^2$

$-9$

$-(-1)^2$

$-1$

$-0^2$

$0$

$-1^2$

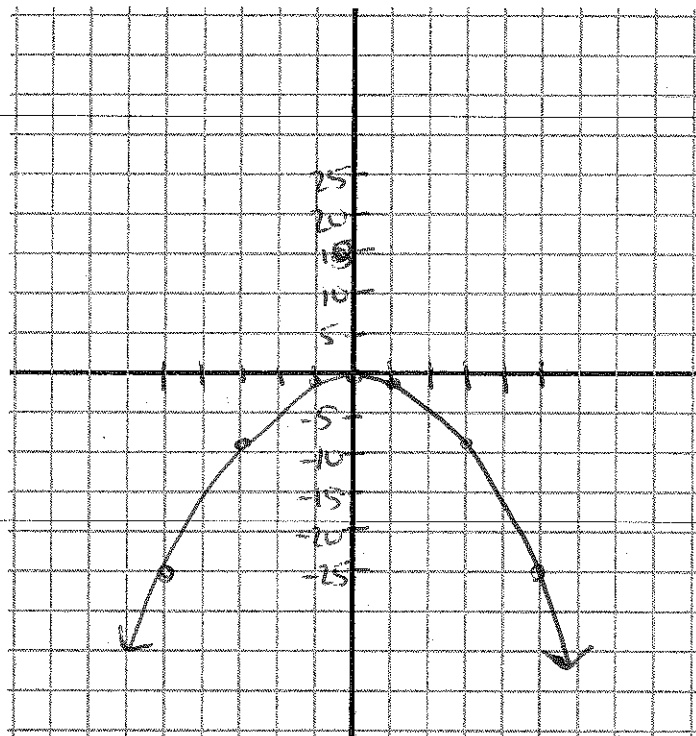
$-1$

$-(3)^2$

$-9$

$-5^2$

$-25$



5.  $y = -2x + 5$

x	y
-5	15
-3	11
-1	7
0	5
1	3
3	-1
5	-5

$$\begin{aligned} -2(-5) + 5 \\ 10 + 5 \\ 15 \end{aligned}$$

$$\begin{aligned} -2(-3) + 5 \\ 6 + 5 \\ 11 \end{aligned}$$

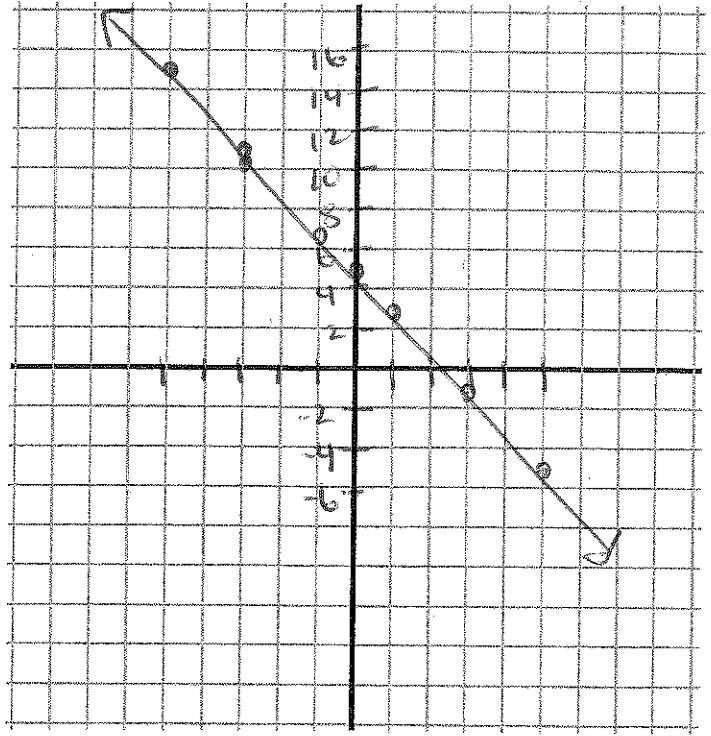
$$\begin{aligned} -2(-1) + 5 \\ 2 + 5 \\ 7 \end{aligned}$$

$$\begin{aligned} -2(0) + 5 \\ 0 + 5 \\ 5 \end{aligned}$$

$$\begin{aligned} -2(1) + 5 \\ -2 + 5 \\ 3 \end{aligned}$$

$$\begin{aligned} -2(3) + 5 \\ -6 + 5 \\ -1 \end{aligned}$$

$$\begin{aligned} -2(5) + 5 \\ -10 + 5 \\ -5 \end{aligned}$$



6.  $y = x^2 - 6$

x	y
-5	19
-3	3
-1	-5
0	-6
1	-5
3	3
5	19

$$\begin{aligned} (-5)^2 - 6 \\ 25 - 6 \\ 19 \end{aligned}$$

$$\begin{aligned} (-3)^2 - 6 \\ 9 - 6 \\ 3 \end{aligned}$$

$$(-1)^2 - 6$$

$$\begin{aligned} 1 - 6 \\ -5 \end{aligned}$$

$$\begin{aligned} (0)^2 - 6 \\ 0 - 6 \\ -6 \end{aligned}$$

$$-6$$

$$(1)^2 - 6$$

$$1 - 6$$

$$-5$$

$$5^2 - 6$$

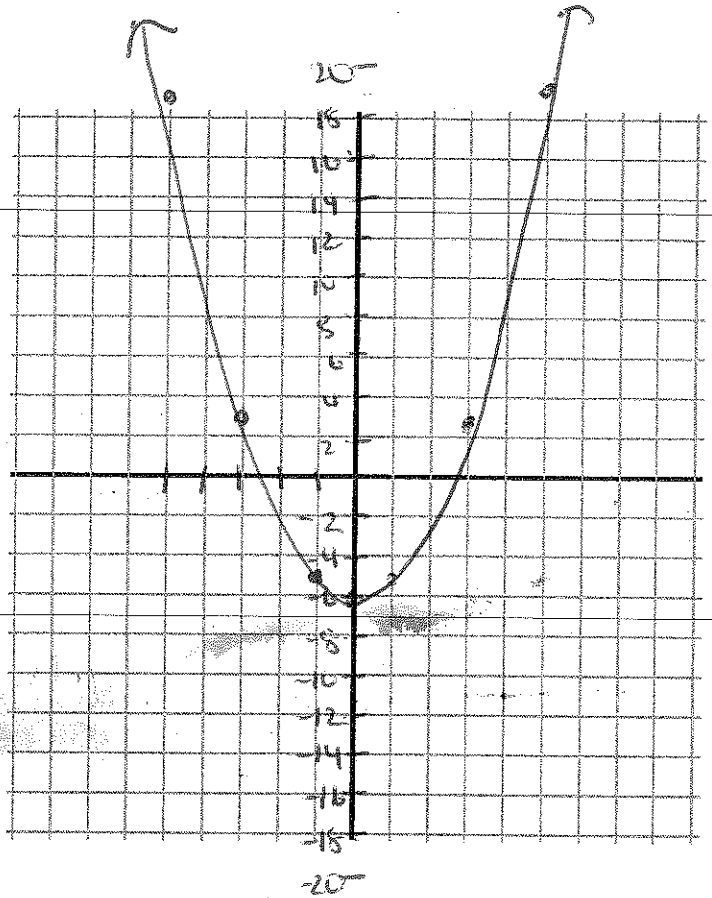
$$25 - 6$$

$$19$$

$$(3)^2 - 6$$

$$9 - 6$$

$$3$$



7.  $y = 3^x$

x	y
0	1
1	3
2	9
3	27
4	81
5	243

$3^0 = 1$

$3^1 = 3$

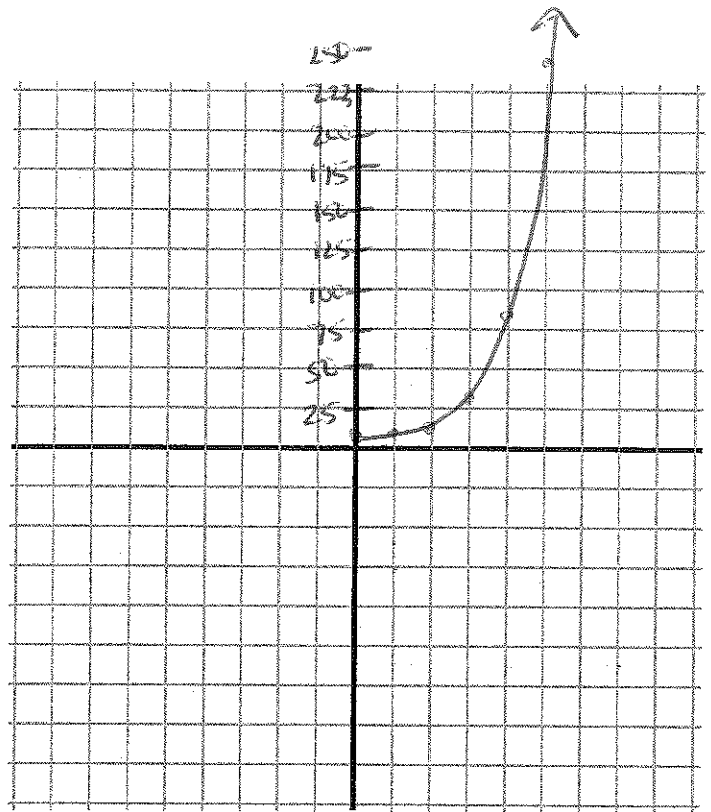
$3^2 = 9$

$3^3 = 27$

$3^4 = 81$

$3^5 = 243$

$$\begin{array}{r} 27 \\ \times 3 \\ \hline 81 \end{array} \qquad \begin{array}{r} 81 \\ \times 3 \\ \hline 243 \end{array}$$



8.  $y = x^3 + 2$

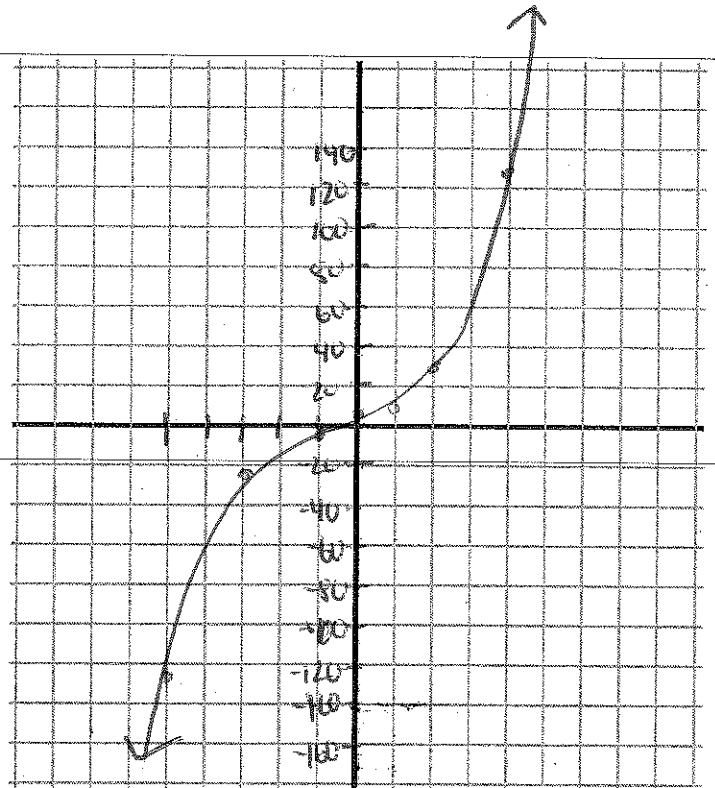
x	y
-5	-123
-3	-25
-1	1
0	2
1	3
3	29
5	127

$(-5)^3 + 2$   
 $-125 + 2$   
 $-123$

$(-3)^3 + 2$   
 $-27 + 2$   
 $-25$

$(-1)^3 + 2$   
 $-1 + 2$   
 $1$   
 $0^3 + 2$   
 $0 + 2$   
 $2$

$(1)^3 + 2$        $3^3 + 2$   
 $1 + 2$        $27 + 2$   
 $3$        $29$   
 $(5)^3 + 2$   
 $125 + 2$   
 $127$



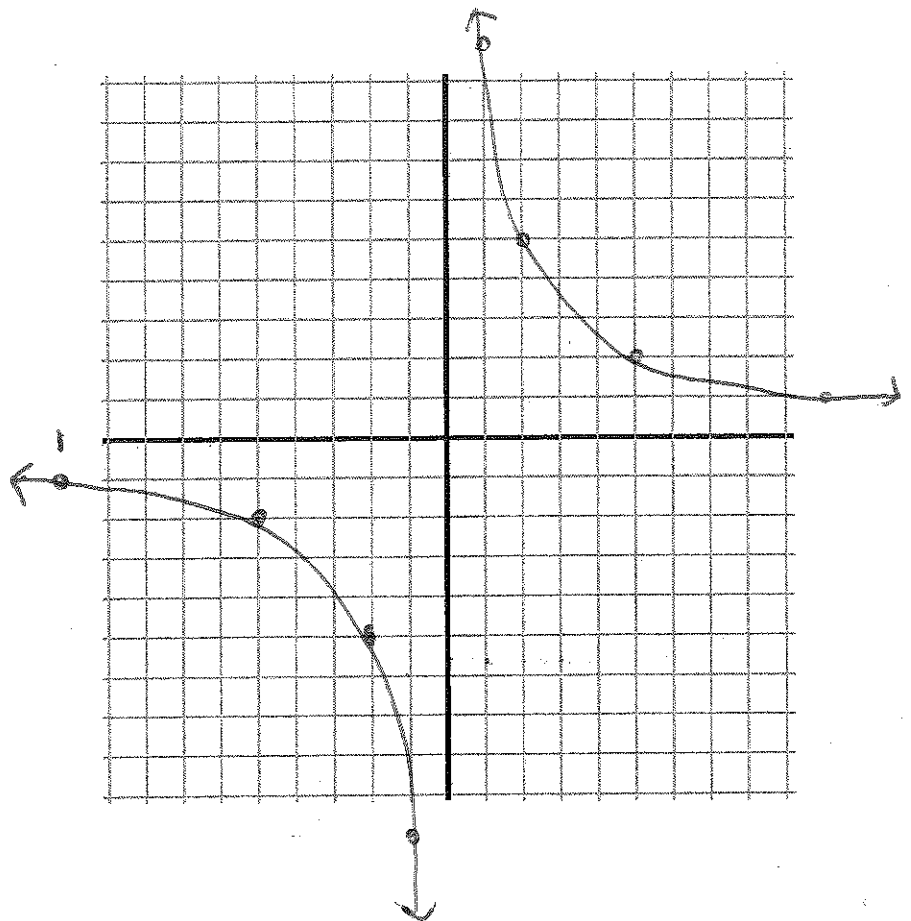
9.  $y = \frac{10}{x}$

x	y
-10	-1
-5	-2
-2	-5
-1	-10
1	10
2	5
5	2
10	1

$\frac{10}{-10}$

$\frac{10}{-5}$

$\frac{10}{-2} = -5$



10.  $y = \frac{20}{x}$

x	y
-10	-2
-5	-4
-2	-10
-1	-20
1	20
2	10
5	4
10	2

