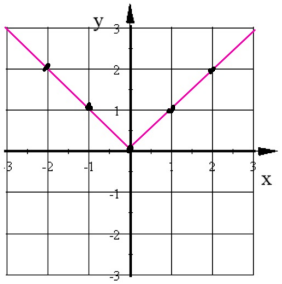
1. Fill out the table and graph $y = |x|$ on a separate sheet of graph paper.

X	Y
−2	2
−1	1
0	0
1	1
2	2

$Y = |X| \rightarrow$ parent function

State the coordinates of the Vertex and the slope of the sides of the "V"



Vertex: $(0, 0)$

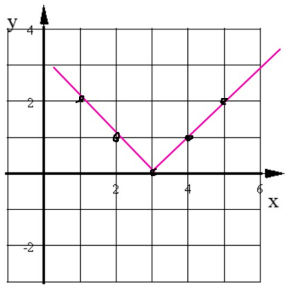
Slope of sides = ± 1

"V" opens: up

2. Fill out the table and graph $y = |x - 3|$ on a separate sheet of graph paper.

X	Y
1	2
2	1
3	0
4	1
5	2

State the coordinates of the Vertex and the slope of the sides of the "V"



Vertex: $(3, 0)$

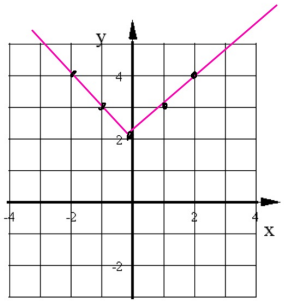
Slope of sides = ± 1

"V" opens: up

3. Fill out the table and graph $y = |x| + 2$ on a separate sheet of graph paper.

X	Y
−2	4
−1	3
0	2
1	3
2	4

State the coordinates of the Vertex and the slope of the sides of the "V"



Vertex: $(0, 2)$

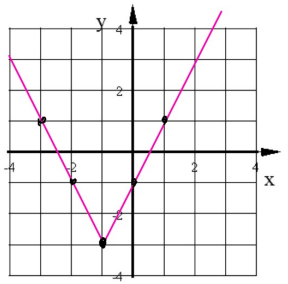
Slope of sides = ± 1

"V" opens: up

4. Fill out the table and graph $y = 2|x + 1| - 3$ on a separate sheet of graph paper.

X	Y
−3	1
−2	−1
−1	−3
0	−1
1	1

State the coordinates of the Vertex and the slope of the sides of the "V"



Vertex: $(-1, -3)$

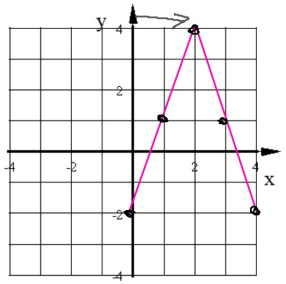
Slope of sides = ± 2

"V" opens: up

5. Fill out the table and graph $y = -3|x - 2| + 4$ on a separate sheet of graph paper.

X	Y
0	-2
1	1
2	4
3	1
4	-2

State the coordinates of the Vertex and the slope of the sides of the "V"



Vertex: (2, 4)

Slope of sides = ± 3

"V" opens: DOWN