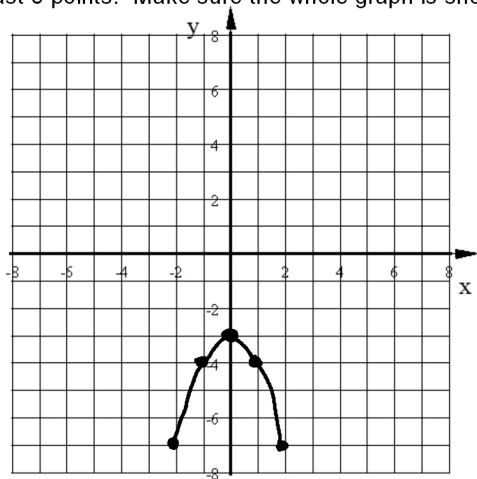1. Graph using at least 5 points. Make sure the whole graph is shown.

$y = -x^2 - 3$
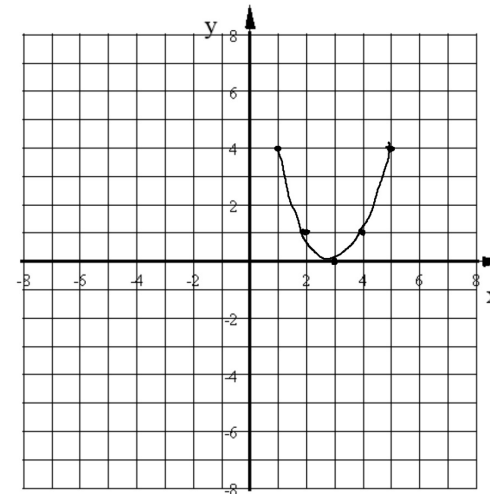

2. Graph using at least 5 points. Make sure the whole graph is shown.

$y = x^2 - 6x + 9$

$(x-3)^2$

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

3. Does each table represent Direct Variation?
If yes, Write a direct variation equation.

a.

X	Y	$\frac{Y}{X}$
-4	-6	1.5
2	3	1.5
9	6	.67
8	13	
13	19.5	

NO

b.

X	Y	$\frac{Y}{X}$
-5	32	-6.4
3	-19.2	"
7	-44.8	"
10	-64	"
16	-102.4	"

Yes $y = -6.4x$
or
$y/x = -6.4$

c.

X	Y	$\frac{Y}{X}$
-6	-26.7	POS
-2	9.8	NEG
-1	-4.9	POS
5	24	POS
8	39	POS

NO