

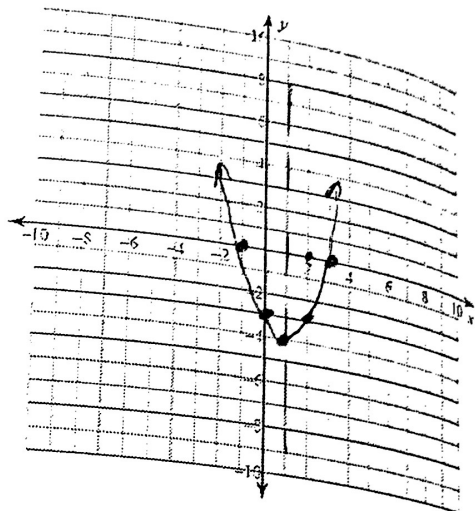
Practice

1. $y = x^2 - 2x - 3$
 $A = 1$ $B = -2$ $C = -3$
 Axis of symmetry?
 $x = \frac{-(-2)}{2(1)} = 1$

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

Y-Intercept? $(0, -3)$
 X-Intercepts? $(-1, 0), (3, 0)$

Up or Down?
 Maximum or Minimum?

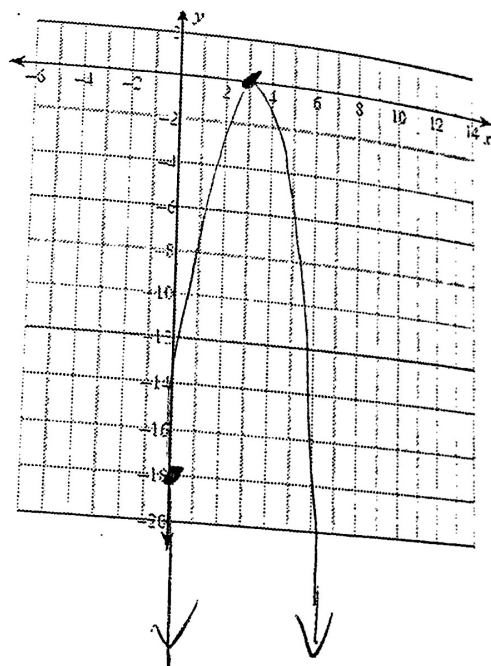


2. $y = -2x^2 + 12x - 18$
 $A = -2$ $B = 12$ $C = -18$
 Axis of symmetry?
 $x = \frac{-12}{2(-2)} = 3$

x	y
-1	-8
2	-2
3	0
4	-2
5	-8

Y-Intercept? $(0, -18)$
 X-Intercepts? $(3, 0)$

Up or Down?
 Maximum or Minimum?

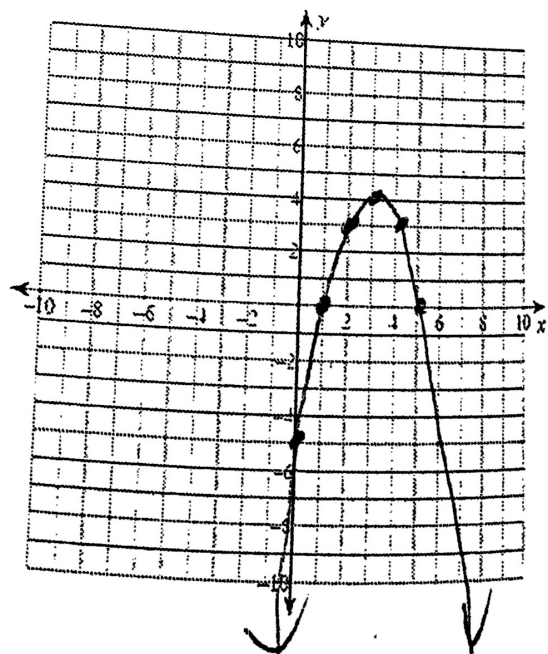


3. $y = -x^2 + 6x - 5$
 $A = -1$ $B = 6$ $C = -5$
 Axis of symmetry?
 $x = \frac{-6}{2(-1)} = 3$

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

Y-Intercept? $(0, -5)$
 X-Intercepts? $(1, 0), (5, 0)$

Up or Down?
 Maximum or Minimum?



4. $y = 2x^2 - 8$
 $A = 2$ $B = 0$ $C = -8$
 Axis of symmetry?

$x = \frac{0}{2(2)} = 0$

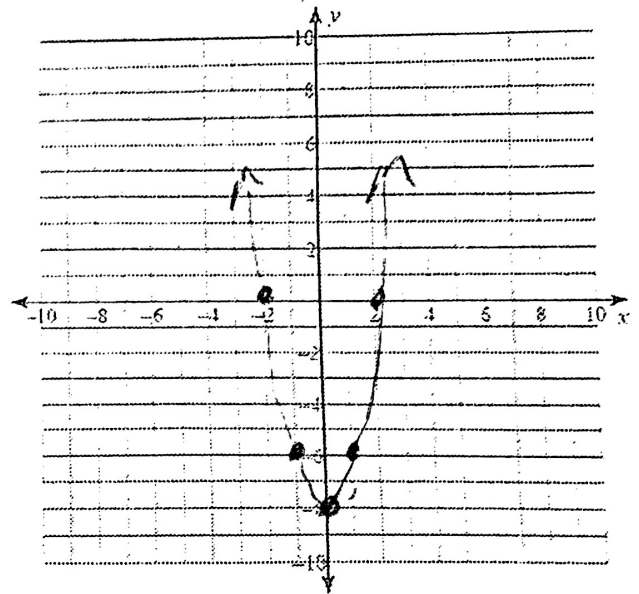
Y-Intercept? $(0, -8)$

X-Intercepts? $(-2, 0), (2, 0)$

Up or Down?

Maximum or Minimum?

x	y
-2	0
-1	-6
0	-8
1	-6
2	0



5. $y = 3x^2 + 12x + 9$
 $A = 3$ $B = 12$ $C = 9$
 Axis of symmetry?

$x = \frac{-12}{2(3)} = -2$

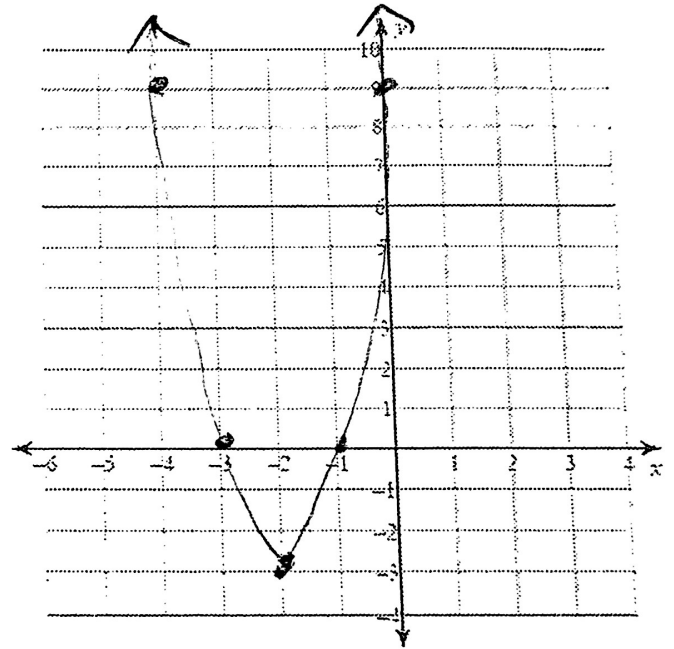
Y-Intercept? $(0, 9)$

X-Intercepts?

Up or Down?

Maximum or Minimum?

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



6. $y = 5x^2 - 40x + 75$
 $A = 5$ $B = -40$ $C = 75$
 Axis of symmetry?

$x = \frac{-(-40)}{2(5)} = 4$

Y-Intercept? $(0, 75)$

X-Intercepts?

Up or Down?

Maximum or Minimum?

x	y
2	15
3	0
4	-5
5	0
6	15

