

Name: Kay

9.1 Graphing ALL forms of quadratics

Given the equations below, identify **a)** which form it is in, **b)** whether it opens up or down **c)** the Axis of Symmetry, **d)** the vertex.

1. $y = 2(x + 6)^2 - 1$

2. $y = -x^2 + 5$

3. $h(x) = (x + 3)(x - 7)$

a) vertex

b) up

c) $x = -6$

d) $(-6, -1)$

a) Standard

b) down

c) $x = 0$

d) $(0, 5)$

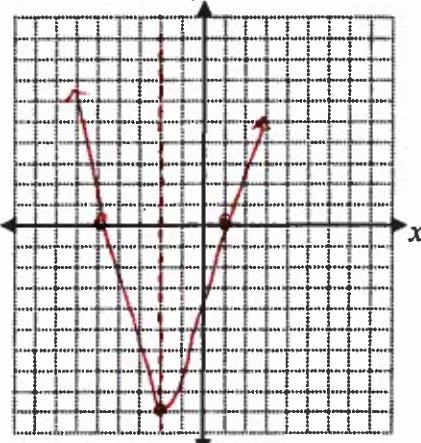
a) intercept

b) up

c) $x = 2$

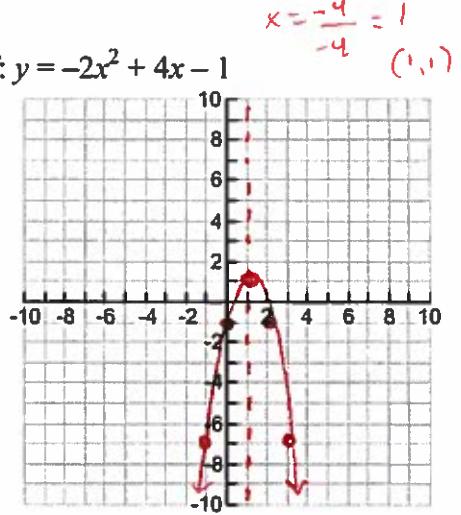
d) $(2, -25)$

4. Sketch the graph of $g(x) = x^2 + 4x - 5$



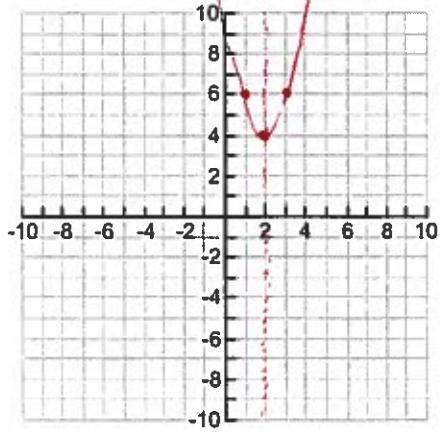
x	y
-5	0
-4	-3
-3	-5
-2	-9
-1	-3
0	-5

5. Sketch the graph of: $y = -2x^2 + 4x - 1$



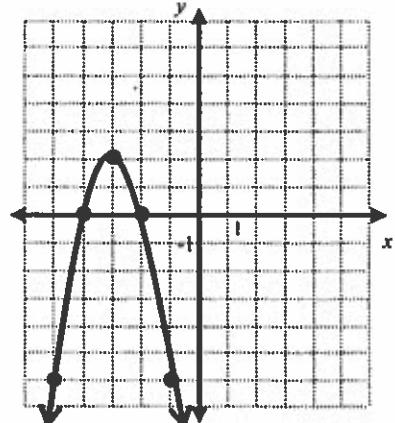
6. Sketch the graph of: $y = 2(x - 2)^2 + 4$

v: $(2, 4)$



x	1	3	0	4		
y	6	6	12	12		

7. What is the equation of the graph below?



a) $y = -2(x + 3)^2 + 2$

b) $y = -2x^2 - 12x - 16$

c) $y = -2(x + 4)(x + 2)$

d) All (answers a-c)

e) none of these