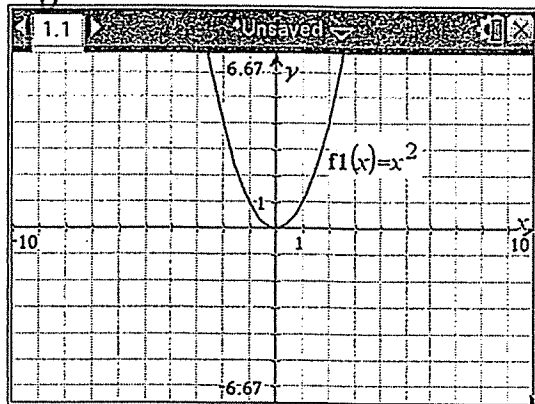


Vertex Form: $f(x) = a(x - h)^2 + k$ a: _____ h: _____ k: _____ Vertex (h,k): _____ Axis of Symmetry ($x = h$): _____ Minimum or Maximum	Vertex Form: $f(x) = 2(x - 1)^2 + 5$ a: _____ h: _____ k: _____ Vertex (h,k): _____ Axis of Symmetry ($x = h$): _____ Minimum or Maximum
$f(x) = -2(x - 3)^2 - 1$ a: _____ h: _____ k: _____ Vertex (h,k): _____ Axis of Symmetry ($x = h$): _____ Minimum or Maximum	$f(x) = -3(x + 2)^2 - 1$ a: _____ h: _____ k: _____ Vertex (h,k): _____ Axis of Symmetry ($x = h$): _____ Minimum or Maximum

Identify the vertex and axis of symmetry for each graph. Tell whether it's a minimum or a maximum.

Equation:



Vertex: _____

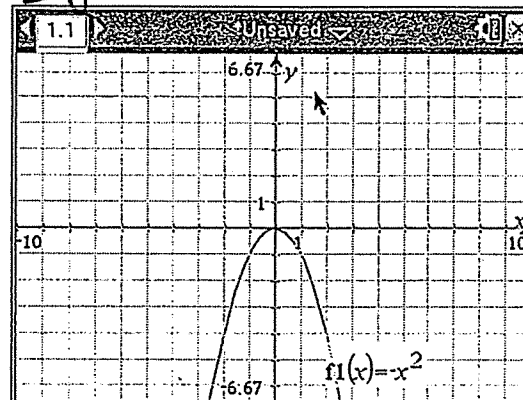
Axis of Symmetry: _____

Minimum or Maximum

Zeros:

Identify the vertex and axis of symmetry for each graph. Tell whether it's a minimum or a maximum.

Eq:



Vertex: _____

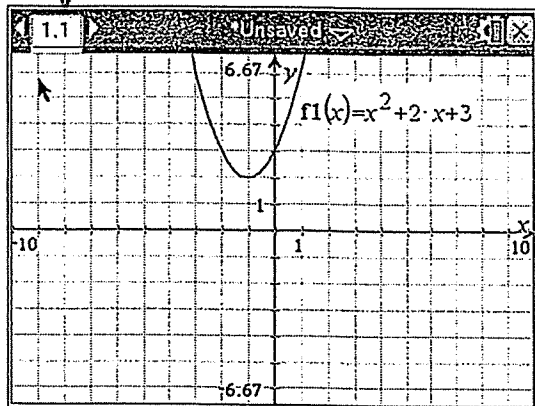
Axis of Symmetry: _____

Minimum or Maximum

Roots:

Identify the vertex and axis of symmetry for each graph. Tell whether it's a minimum or a maximum.

Eq:



Vertex: _____

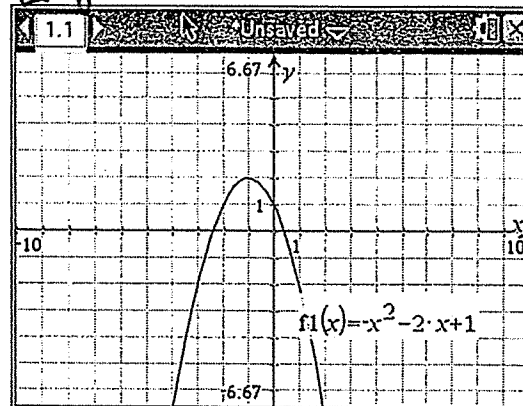
Axis of Symmetry: _____

Minimum or Maximum

Roots:

Identify the vertex and axis of symmetry for each graph. Tell whether it's a minimum or a maximum.

Eq:



Vertex: _____

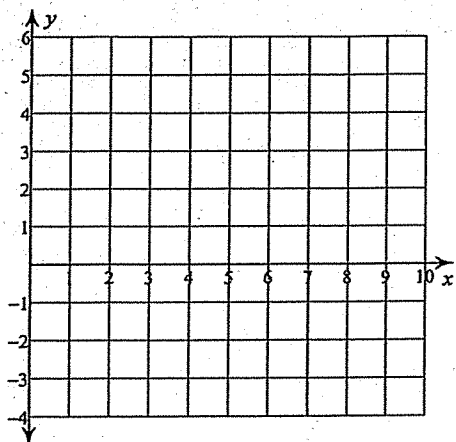
Axis of Symmetry: _____

Minimum or Maximum

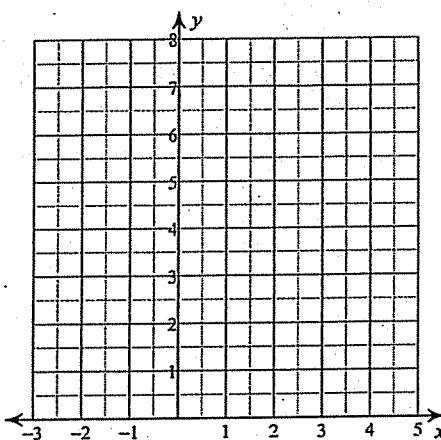
Zeros:

Sketch the graph of each function.

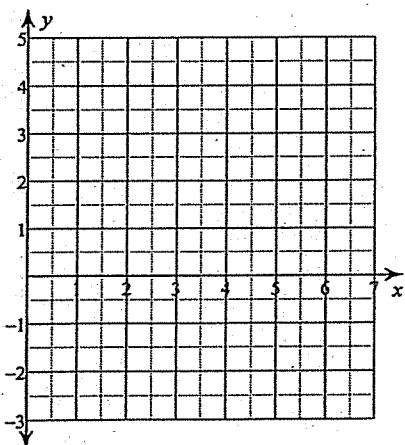
1) $y = 2(x - 3)^2 - 3$



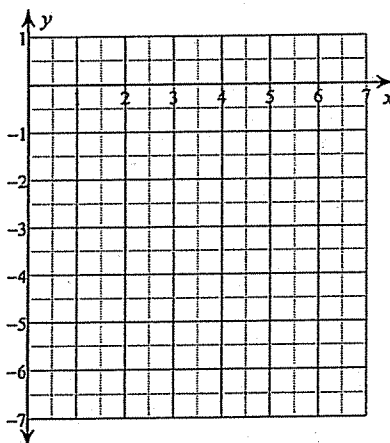
2) $y = (x - 1)^2 + 3$



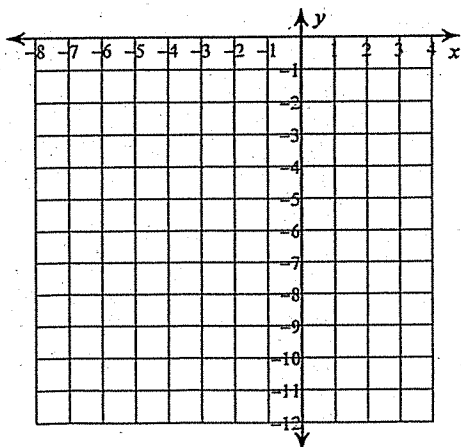
3) $y = (x - 4)^2 - 1$



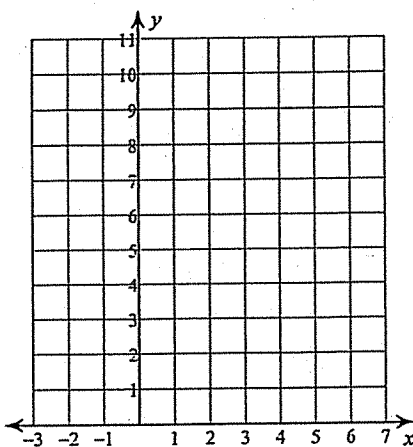
4) $y = -(x - 4)^2 - 1$



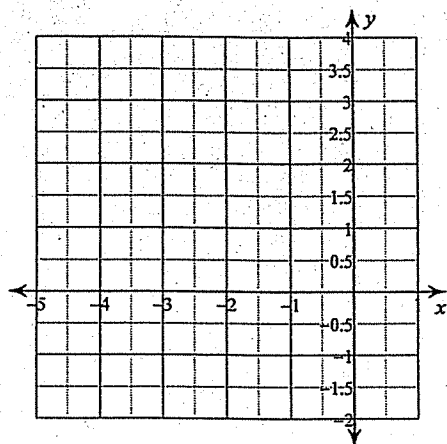
5) $y = -2(x - 1)^2 - 3$



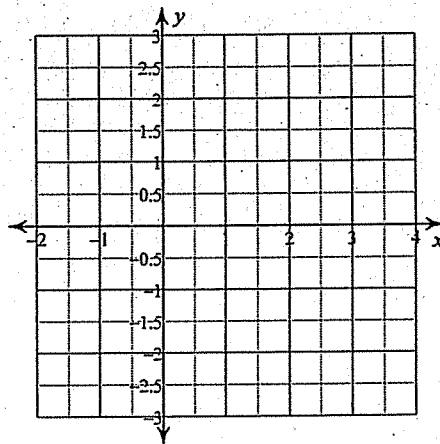
6) $y = 2(x - 1)^2 + 2$



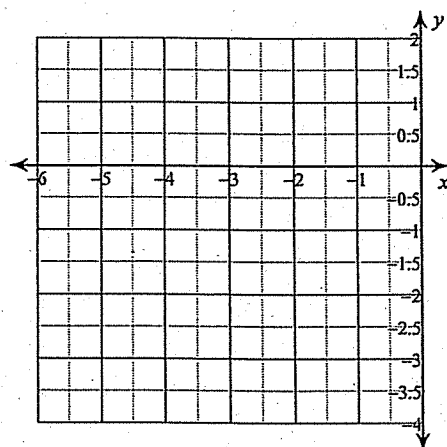
$$7) y = -(x+2)^2 + 3$$



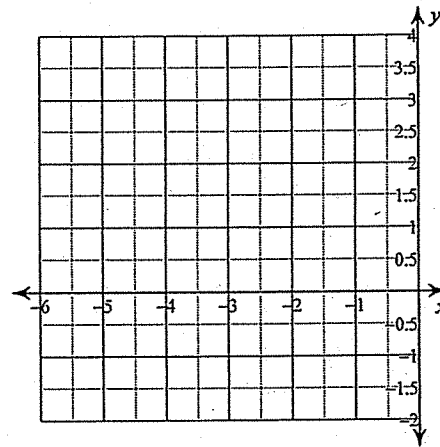
$$8) y = (x-1)^2 - 2$$



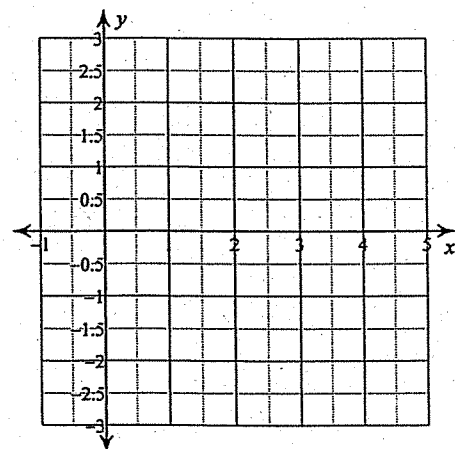
$$9) y = -(x+3)^2 + 1$$



$$10) y = (x+3)^2 - 1$$



$$11) y = -(x-1)^2 + 2$$



$$12) y = -4(x+4)^2 - 2$$

