

Vertex Form Analysis Homework

For the following quadratic equations, identify all characteristics listed AND graph

1. $Y = -2(x - 4)^2 - 1$

Opens: up or down

Vertex: _____

Max or Min: _____

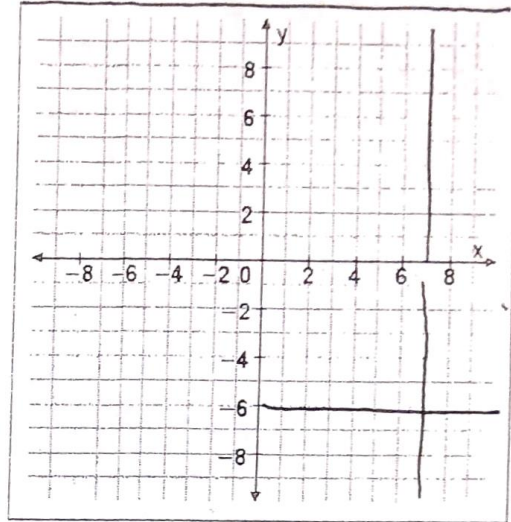
Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

Rate of Change from $x = 4$ to $x = 6$

X	Y



2. $Y = 3(x + 2)^2 - 5$

Opens: up or down

Vertex: _____

Max or Min: _____

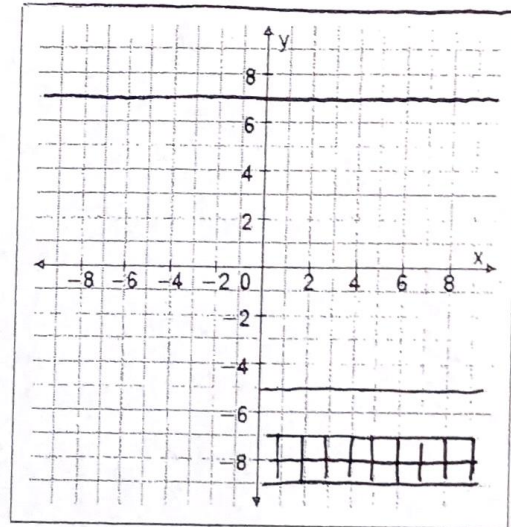
Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

Rate of Change from $x = -4$ to $x = -3$

X	Y



3. $Y = -(x - 5)^2 + 4$

Opens: up or down

Vertex: _____

Max or Min: _____

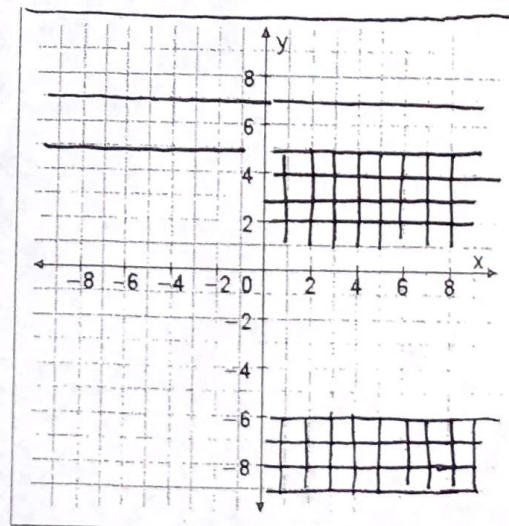
Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

Rate of Change from $x = 3$ to $x = 4$

X	Y



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

a = ___ h = ___ k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

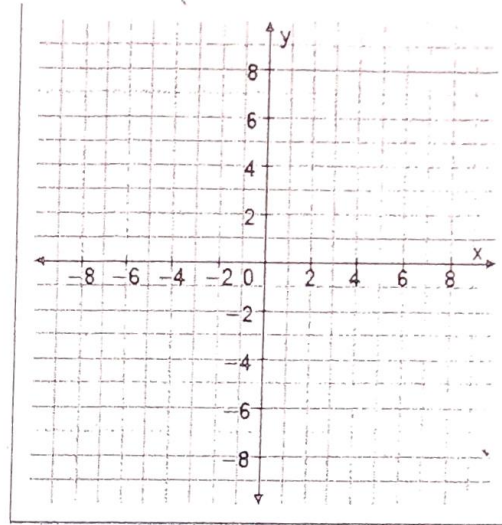
Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

Rate of Change from $x = 3$ to $x = 5$

X	Y



5. $y = -3(x + 6)^2 + 8$

a = ___ h = ___ k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

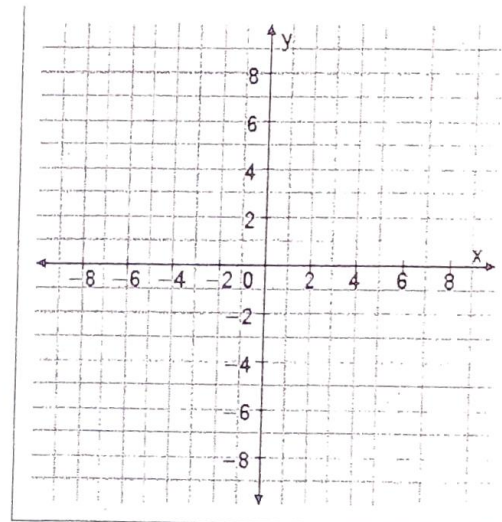
Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

Rate of Change from $x = -8$ to $x = -5$

X	Y



6. $y = (x - 7)^2 - 5$

a = ___ h = ___ k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y-Intercept: _____

Rate of Change from $x = 7$ to $x = 9$

X	Y

