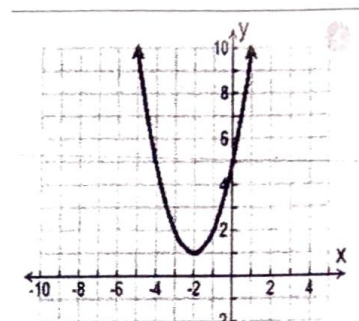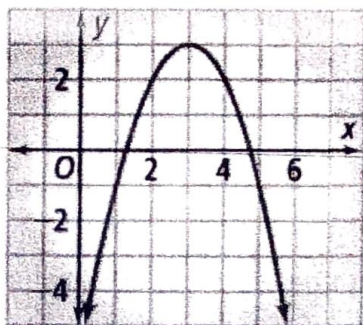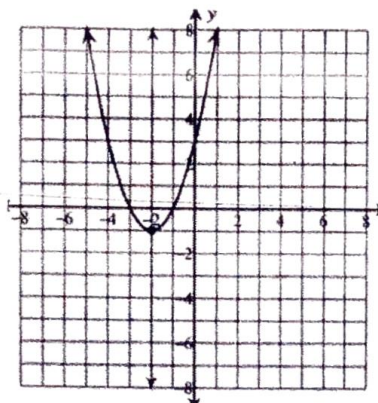Notes: Write the equation of the graph in vertex form: $y = a(x - h)^2 + k$

Determine if "happy" or "sad" for a value; find the vertex ( (h, k) or turning point) ) and plug in for h & k.



_____

a = ___    h = _____    k = ___

Opens:  up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y – Intercept: _____

Rate of Change from x = - 1 to x = 0

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

Interval of Increase: _____

Interval of Decrease: _____

_____

a = ___    h = _____    k = ___

Opens:  up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y – Intercept: _____

Rate of Change from x = 1 to x = 2

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

Interval of Increase: _____

Interval of Decrease: _____

_____

a = ___    h = _____    k = ___

Opens:  up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y – Intercept: _____

Rate of Change from x = -2 to x =

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

Interval of Increase: _____

Interval of Decrease: _____