Homework

1. $f(x) = (x + 4)^2 - 2$

a = ___   h = _____   k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

Y – Intercept: _____

Rate of Change from x = 6 to x = ⁻3

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

X	y
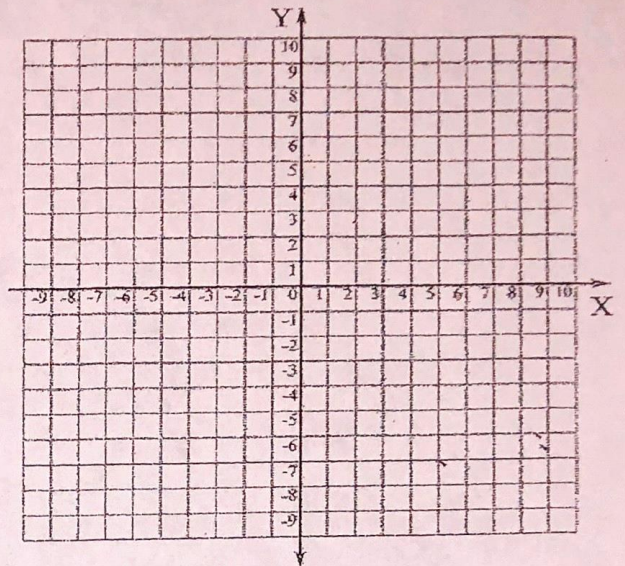
2. $f(x) = -(x - 2)^2 + 3$

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 = 4

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

X	y
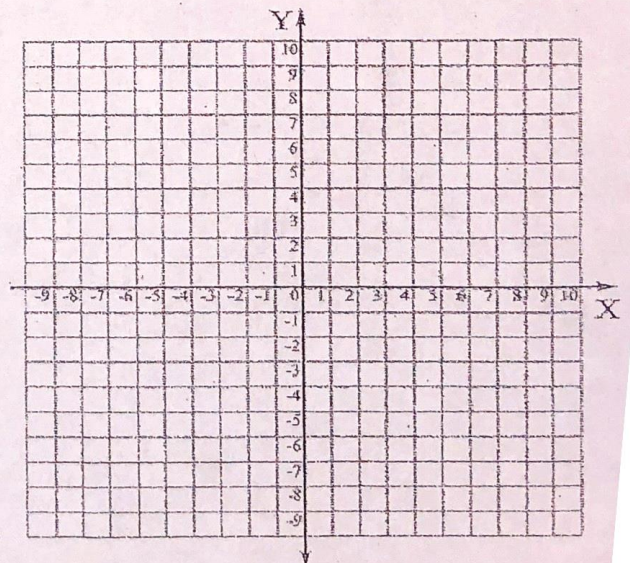
3. $f(x) = 2(x + 3)^2 + 2$

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 = $^-2$

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

X	Y

4 $f(x) = -2x^2$

a = ___   h = _____   k = ___

Opens: up or down

Vertex: _____

Max or Min: _____

Axis of symmetry: _____

X-Intercept: _____

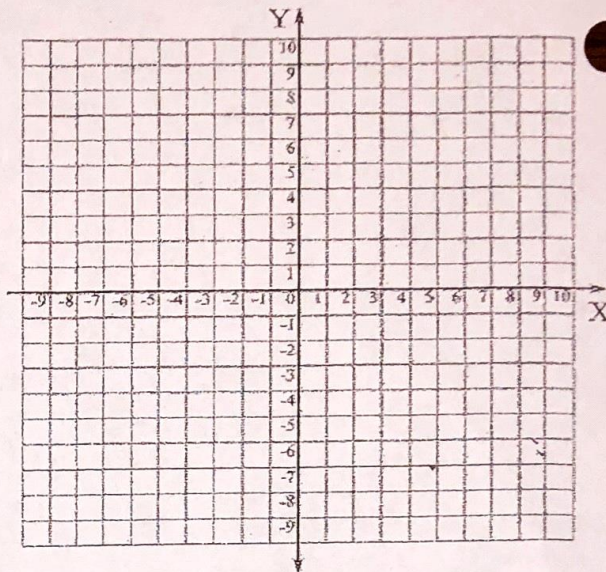Y – Intercept: _____

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

Domain: _____

Range: _____

End behavior : As x → - ∞, y →

x → ∞, y →

X	Y