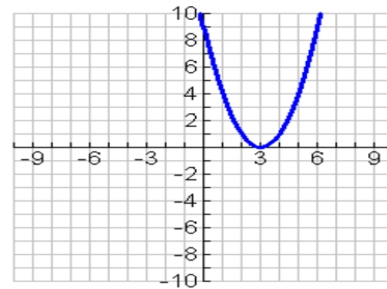


Name _____ KEY _____

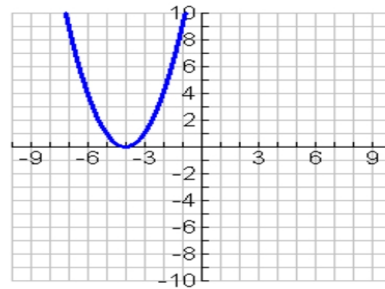
Problem # ____1____ Equation $y = (x - 3)^2$

Vertex: $(3, 0)$
Axis of Symmetry: $x = 3$
Domain: All real #
Range: $y \geq 0$
Opens Up/Down: up
Vertical Stretch/Shrink or None: None
Min/Max Value: Min value at $y = 0$



Problem # ____2____ Equation $y = (x + 4)^2$

Vertex: $(-4, 0)$
Axis of Symmetry: $x = -4$
Domain: All real #s
Range: $y \geq 0$
Opens Up/Down: Up
Vertical Stretch/Shrink or None: None
Min/Max Value: Min value at $y = 0$



Problem # ____3____ Equation $f(x) = -(x + 3)^2 + 5$

Vertex: $(-3, 5)$
Axis of Symmetry: $x = -3$
Domain: All real #s
Range: $y \leq 5$
Opens Up/Down: Down
Vertical Stretch/Shrink or None: None
Min/Max Value: Max value at $y = 5$

