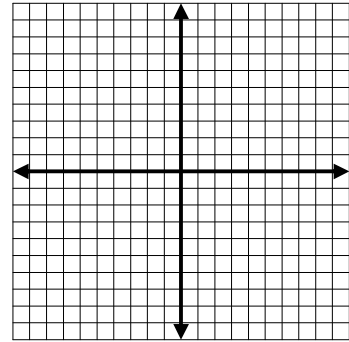


Pre-Calc
HW Day 2 – Parabolas

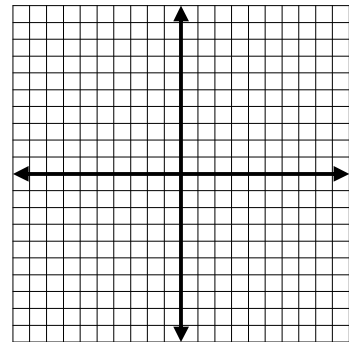
Name _____

Write an equation in standard form for each Parabola.

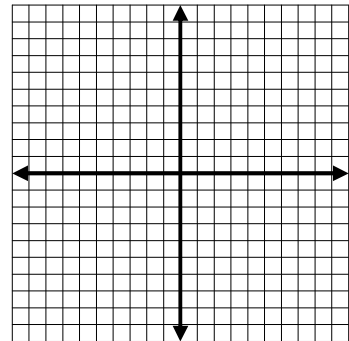
a) Vertex $(0,0)$; focus $(-4,0)$



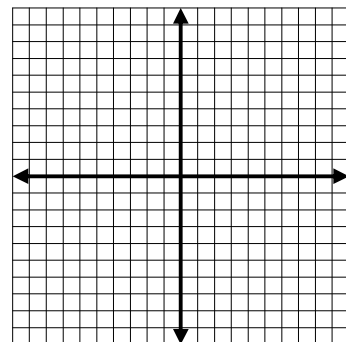
b) Vertex $(0,0)$; directrix $x = -6$



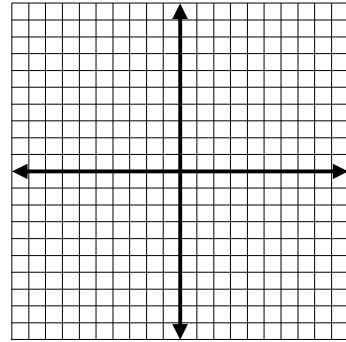
c) Vertex $(0,0)$; opens up, focal width = 10



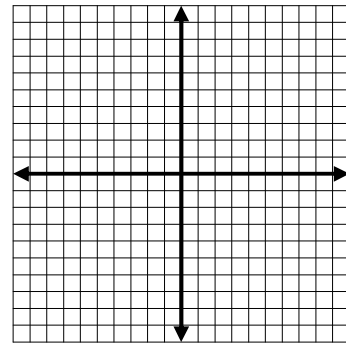
d) Focus $(-4,2)$; vertex $(-5,2)$



e) Focus $(3, -4)$ and directrix $x = 9$



f) Vertex $(-3, 3)$, opens upward, and focal width 16



g) Put the equation into standard form: $y = x^2 + 8x - 6$

h) Put the equation into standard form: $x = -4y^2 - 16y - 9$