

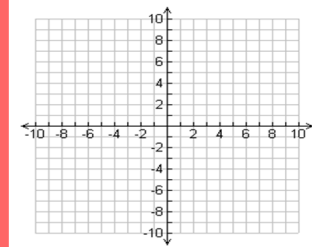
Graphing Quadratic Equations

Vertex Form: $y = a(x - h)^2 + k$

- Vertex is (h, k)
- Axis of symmetry is the line $x = h$
- Plot two points on one side, and use axis of symmetry to complete the graph

Graph $y = -\frac{1}{2}(x + 3)^2 + 4$

Vertex: (\quad, \quad)

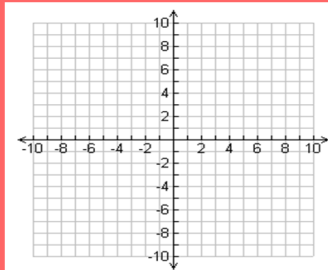


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Graph $f(x) = (x - 3)^2 + 1$

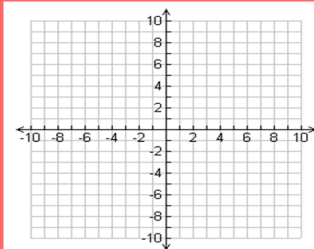
Vertex: (\quad, \quad)



Apr 19-2:23 PM

Graph $f(x) = \frac{1}{2}(x - 4)^2 - 2$

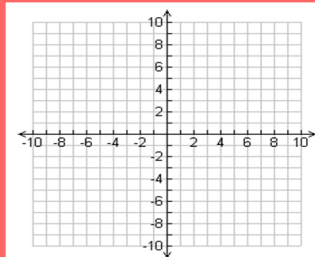
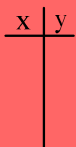
Vertex: (\quad, \quad)



Apr 19-2:23 PM

Graph $f(x) = -2(x + 5)^2 - 3$

Vertex: (\quad, \quad)



Apr 19-2:24 PM