

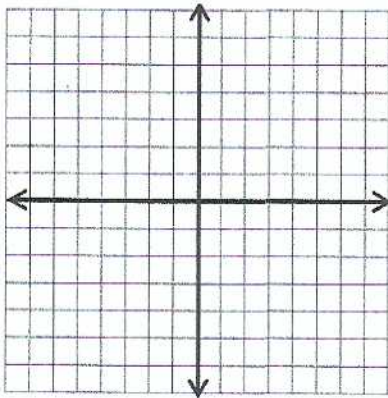


Finding the Focus, Vertex, and Directrix of a Parabola

Identify the Focus, Vertex, and Directrix of each. Then sketch the graph.

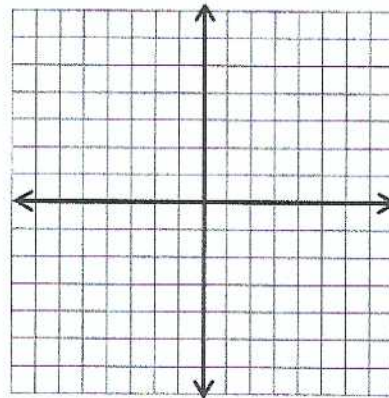
1) $x^2 + 8y = 0$

Focus:
Vertex:
Directrix:



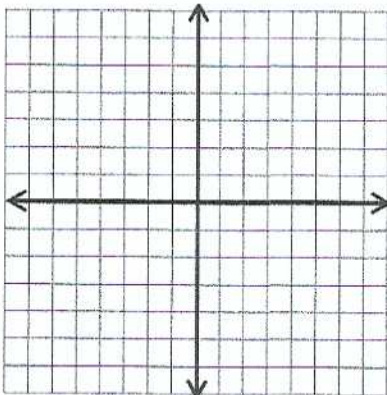
2) $x^2 = 16y$

Focus:
Vertex:
Directrix:



3) $y = (x + 3)^2 - 2$

Focus:
Vertex:
Directrix:



4) $(x + 2)^2 = -4(y + 2)$

Focus:
Vertex:
Directrix:

