

10-2 Practice (continued)

Parabolas

Form G

Identify the vertex, the focus, and the directrix of the parabola with the given equation. Then sketch the graph of the parabola.

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

Vertex:

Focus:

Directrix:

19. $x = 2y^2$

Vertex:

Focus:

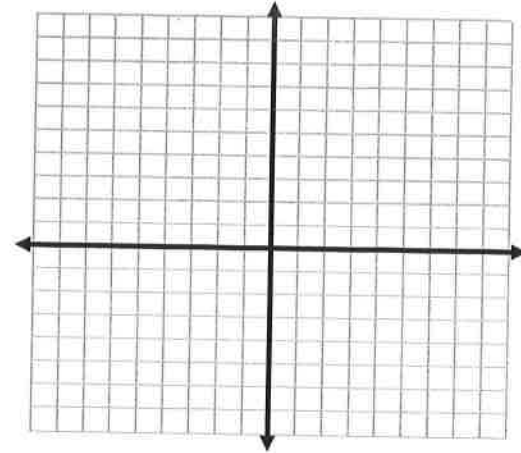
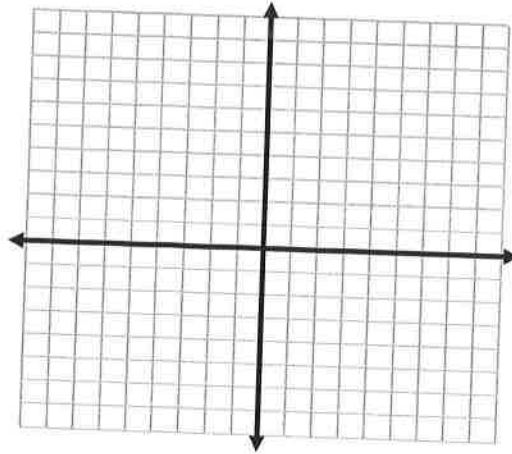
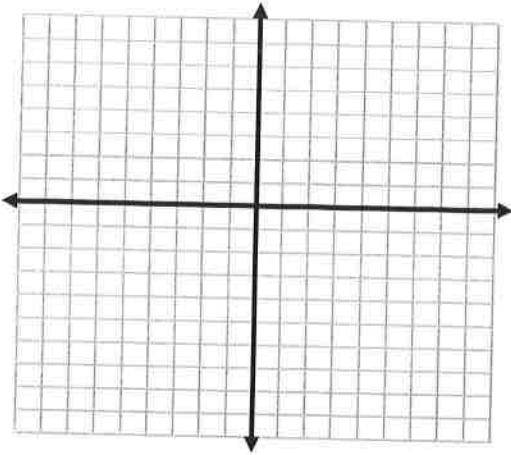
Directrix:

20. $y^2 - 4x - 2y = 3$

Vertex:

Focus:

Directrix:



Write an equation of a parabola with the given vertex and focus.

21. vertex (0, 0); focus (-2, 0)

22. vertex (0, 0); focus (0, 4)

23. vertex (2, 3); focus (6, 3)

24. vertex (4, 7); focus (4, 4)