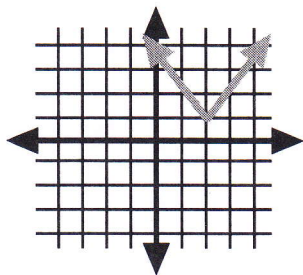


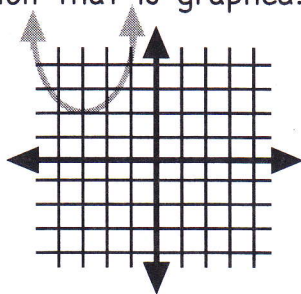
Recognizing the Graphs

Write the equation for the function that is graphed. Then name the new vertex.

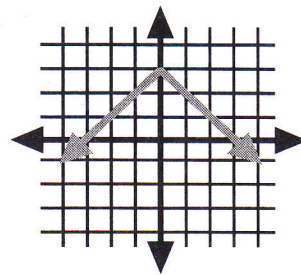
1.



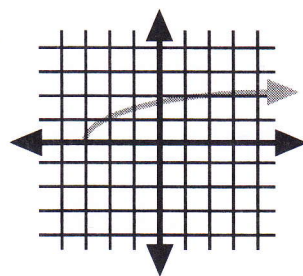
2.



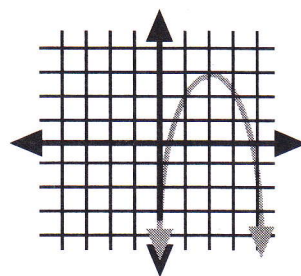
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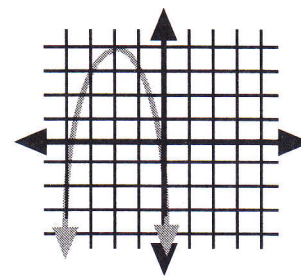
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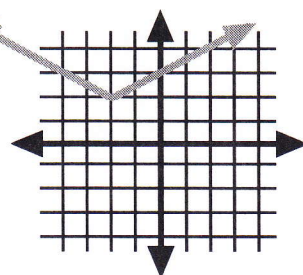
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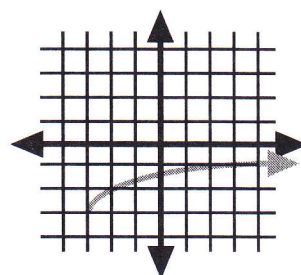
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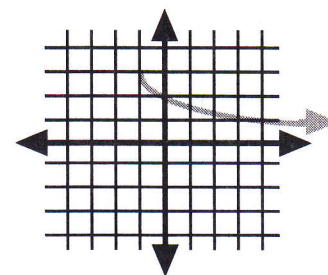
7.



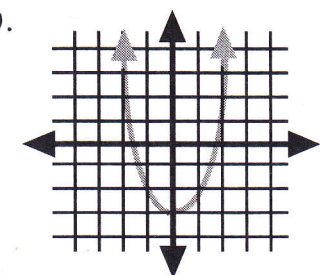
8.



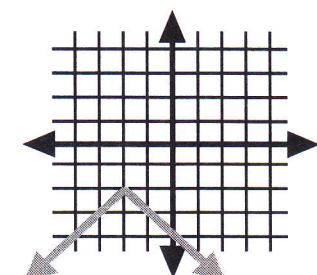
9.



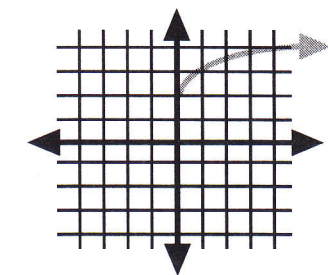
10.



11.

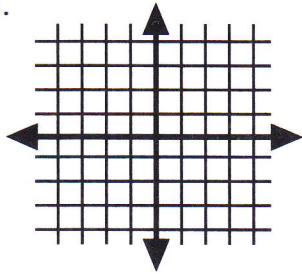


12.



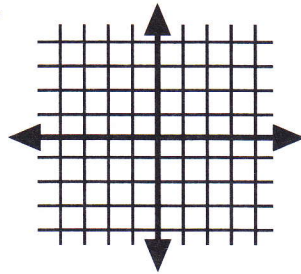
Sketch the graph of the function. Then name the vertex.

13.



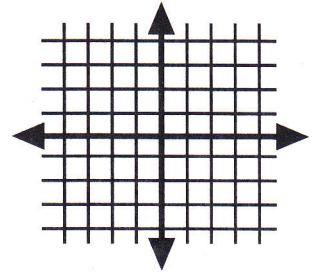
$$y = (x - 2)^2 + 1$$

14.



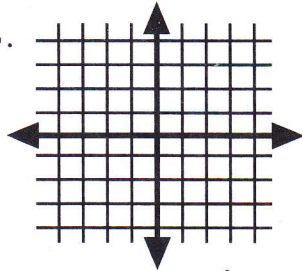
$$y = -|x + 3|$$

15.



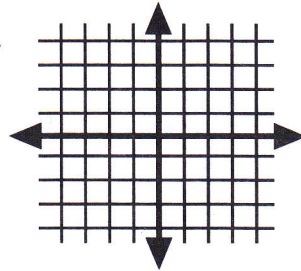
$$y = 2\sqrt{x}$$

16.



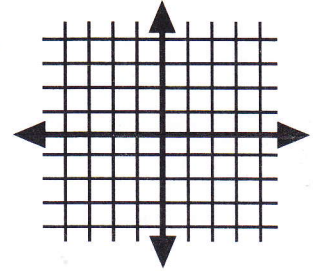
$$y = (x - 2)^2 - 2$$

17.



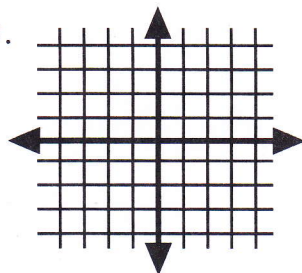
$$y = -|x| - 1$$

18.



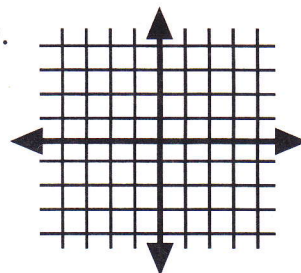
$$y = \sqrt{x - 2} + 1$$

19.



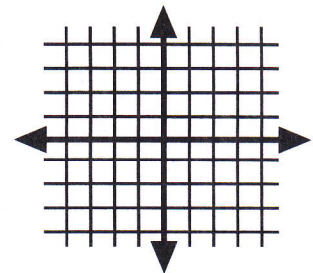
$$y = |x + 2| - 1$$

20.



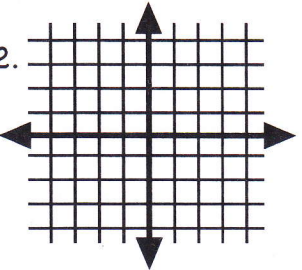
$$y = \sqrt{x + 4}$$

21.



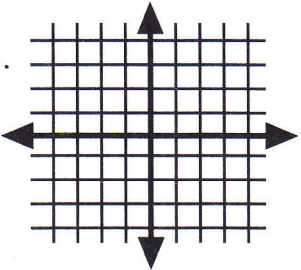
$$y = -|x - 2|$$

22.



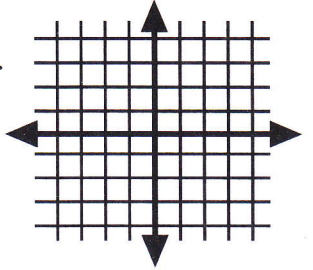
$$y = -x^2 - 2$$

23.



$$y = -\sqrt{x - 2}$$

24.



$$y = \frac{1}{2}(x + 1)^2$$