

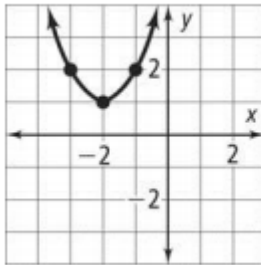
9-1 Practice

Quadratic Graphs and Their Properties

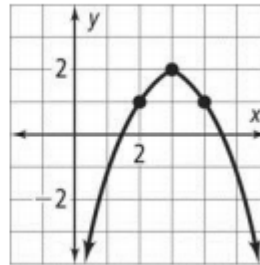
Form K

Identify the vertex of each graph. Tell whether it is a maximum or a minimum.

1.

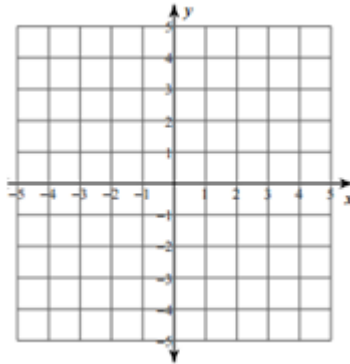


2.



3. Graph $y = 5x^2$.

x	$y = 5x^2$	y



Vertex: _____

Max/Min: _____

Axis of Symmetry: _____

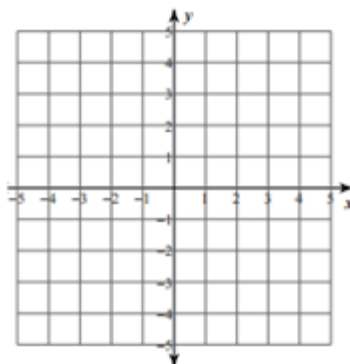
Width: _____

Domain: _____

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4. Graph $y = -\frac{2}{3}x^2$.

x	$y = x^2$	y



Vertex: _____

Max/Min: _____

Axis of Symmetry: _____

Width: _____

Domain: _____

Range: _____

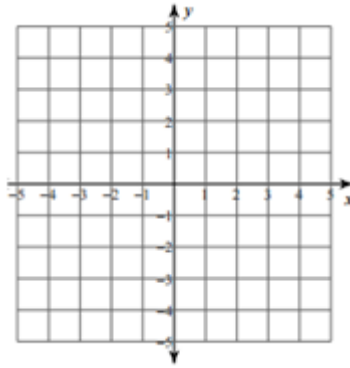
Order each group of quadratic functions from the widest to the narrowest graph.

5. $y = -2x^2$; $y = -4x^2$; $y = -3x^2$

6. $y = \frac{1}{3}x^2$; $y = 3x^2$; $y = \frac{1}{6}x^2$

7. Graph $y = 2x^2 + 1$

x	$y = 2x^2 + 1$	y



Vertex: _____

Max/Min: _____

Axis of Symmetry: _____

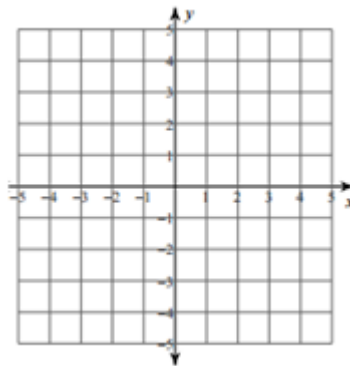
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Domain: _____

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8. Graph $y = -\frac{1}{4}x^2 + 2$

x	$y = -\frac{1}{4}x^2 + 2$	y



Vertex: _____

Max/Min: _____

Axis of Symmetry: _____

Width: _____

Domain: _____

Range: _____