

Graphing Parabolas

Find the axis of symmetry, the vertex and the x- and y-intercepts.

Show all steps and work to receive full extra credit.

1. $y = x^2 - 7x$

Answers

Axis of symmetry

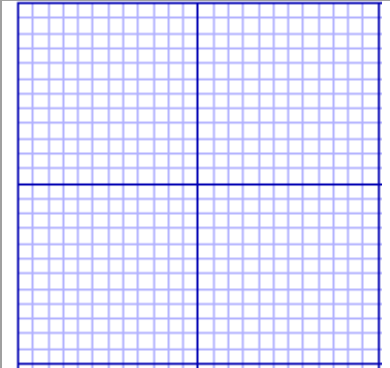
x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____

Graphs



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

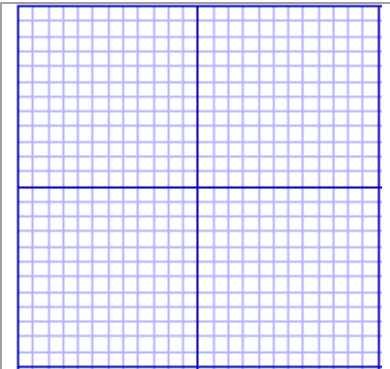
Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____



3. $y = -2x^2 + 1$

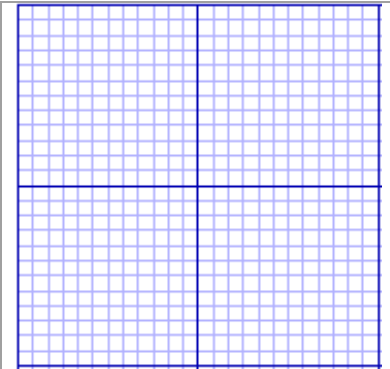
Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____



4. $y = 2x^2 + 8$

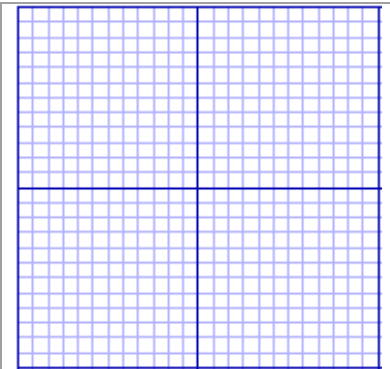
Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____



5. $y = 2x^2 + 5x - 3$

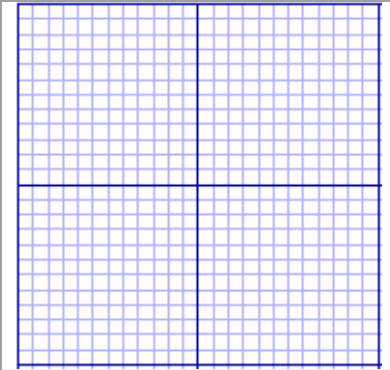
Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____



6. $y = -6x^2 - 5x + 1$

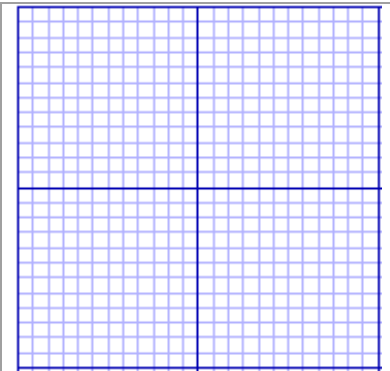
Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____



7. $y = 8x^2 + 10x - 3$

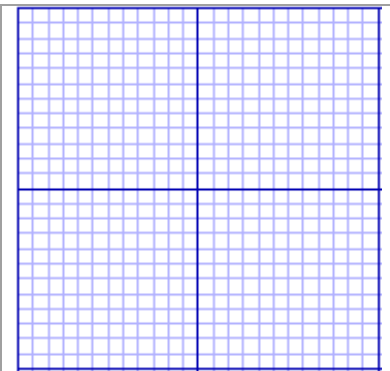
Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____



8. $y = -2x^2 + x + 10$

Axis of symmetry

x = _____

Vertex (____, ____)

x-intercepts _____

y-intercepts _____

