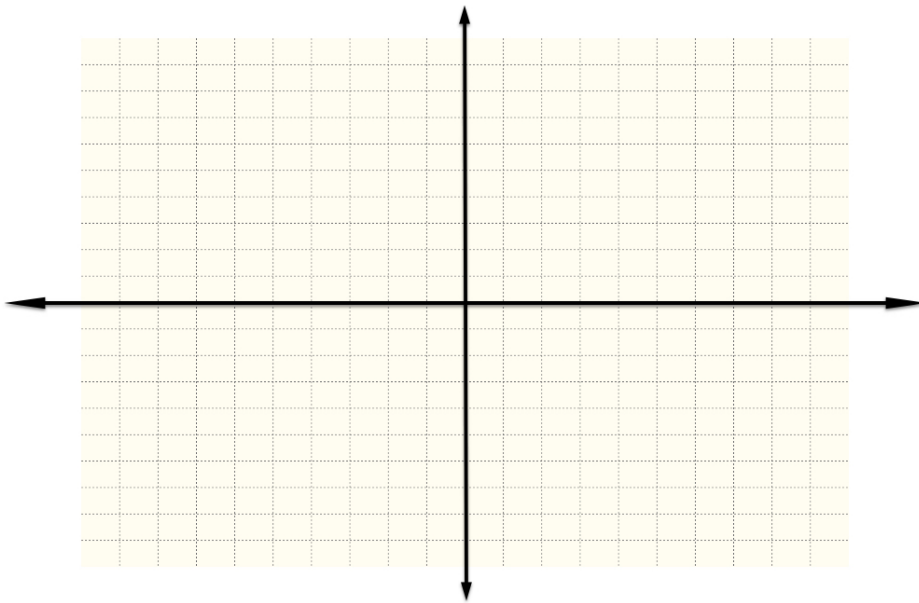


Graphing Quadratics Extra Credit Assignment

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

For all the quadratic equation, determine the following:

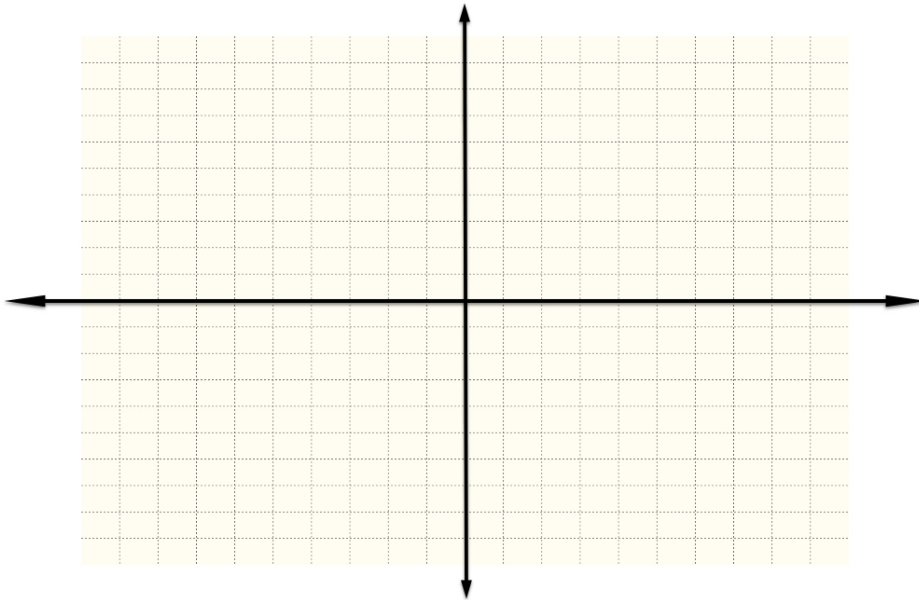
- (a) Vertex
- (b) Axis of Symmetry
- (c) Opens up/Opens Down
- (d) x-intercept(s), if any.
- (e) y-intercept
- (f) Sketch the Parabola



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

For all the quadratic equation, determine the following:

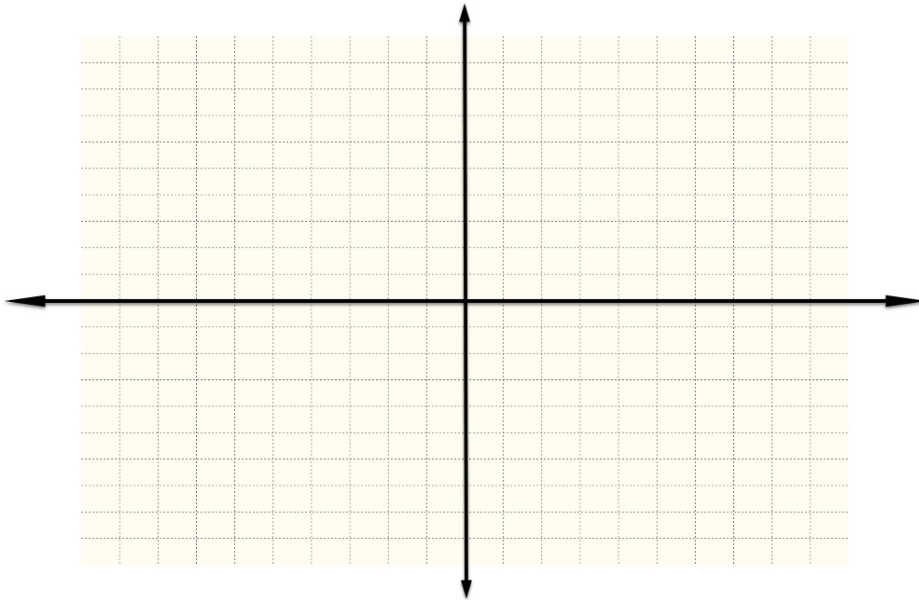
- (a) Vertex
- (b) Axis of Symmetry
- (c) Opens up/Opens Down
- (d) x-intercept(s), if any.
- (e) y-intercept
- (f) Sketch the Parabola



3. $y = 4x^2 - 16x + 3$

For all the quadratic equation, determine the following:

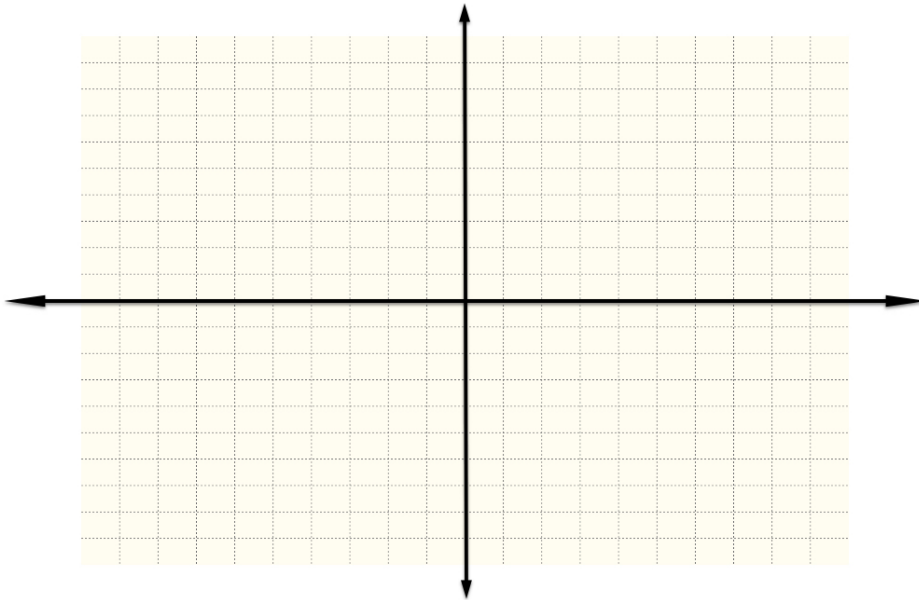
- (a) Vertex
- (b) Axis of Symmetry
- (c) Opens up/Opens Down
- (d) x-intercept(s), if any.
- (e) y-intercept
- (f) Sketch the Parabola



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

For all the quadratic equation, determine the following:

- (a) Vertex
- (b) Axis of Symmetry
- (c) Opens up/Opens Down
- (d) x-intercept(s), if any.
- (e) y-intercept
- (f) Sketch the Parabola



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

For all the quadratic equation, determine the following:

- (a) Vertex
- (b) Axis of Symmetry
- (c) Opens up/Opens Down
- (d) x-intercept(s), if any.
- (e) y-intercept
- (f) Sketch the Parabola

