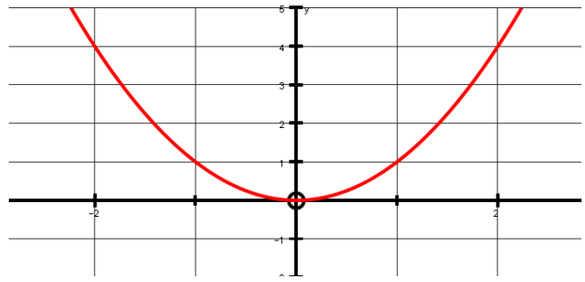
Parts of a Parabola

For each parabola, label all parts on the curve. Circle if it is a max or a min. Fill in the points or lines.

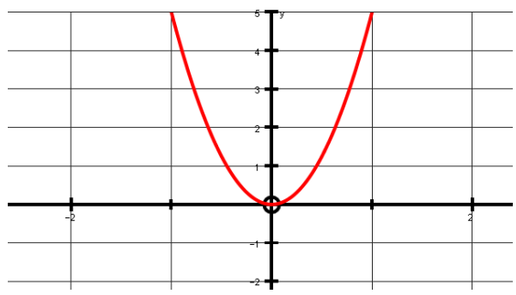
1. $y = x^2$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



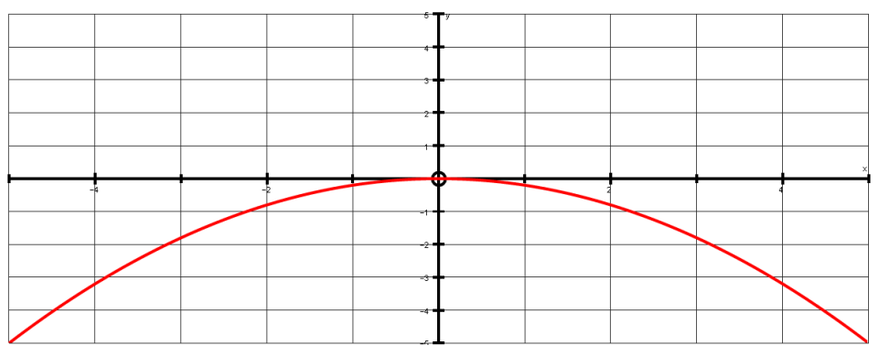
2. $y = 5x^2$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



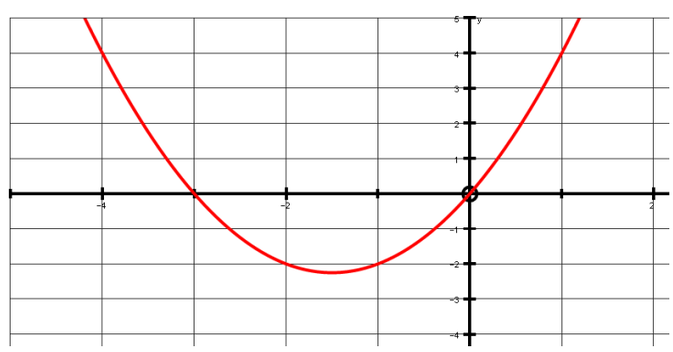
3. $y = -0.2x^2$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



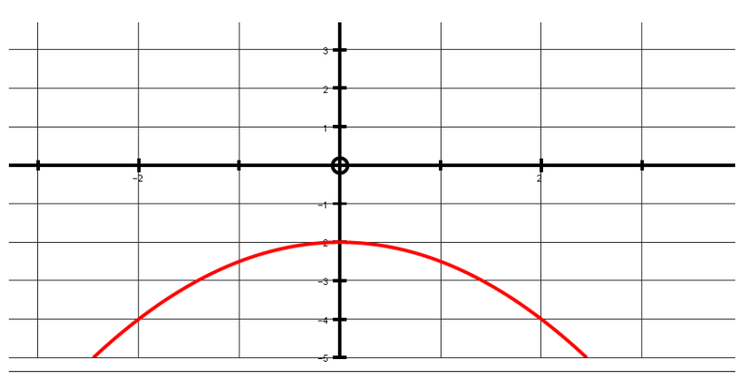
4. $y = x^2 + 3x$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



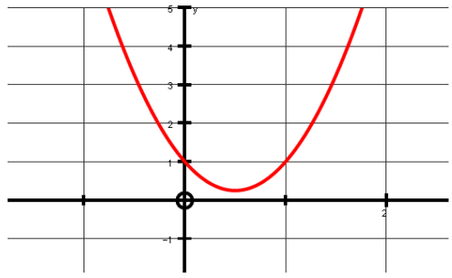
5. $y = -\frac{1}{2}x^2 - 2$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



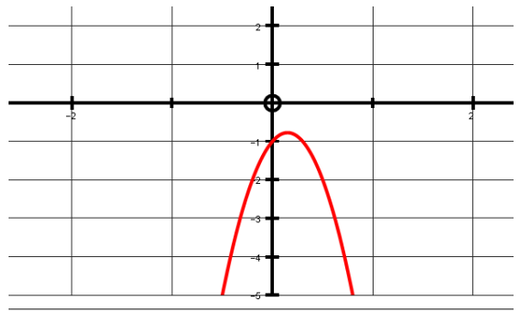
6. $y = 3x^2 - 3x + 1$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



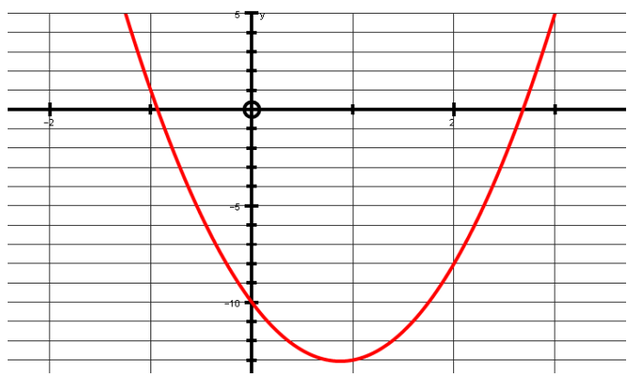
7. $y = -10x^2 + 3x - 1$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



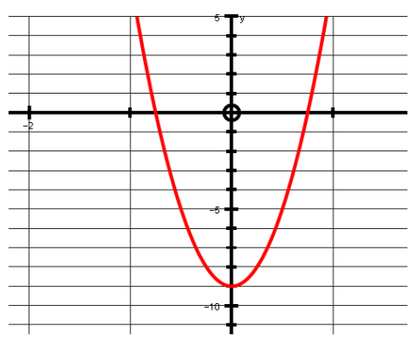
8. $y = 4x^2 - 7x + 10$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



9. $y = 16x^2 - 9$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)



10. $y = x^2 + 6x + 8$

Vertex (,)
Max/Min (,)
Line of Symmetry x = ____
y-intercept (,)
x-intercept(s)