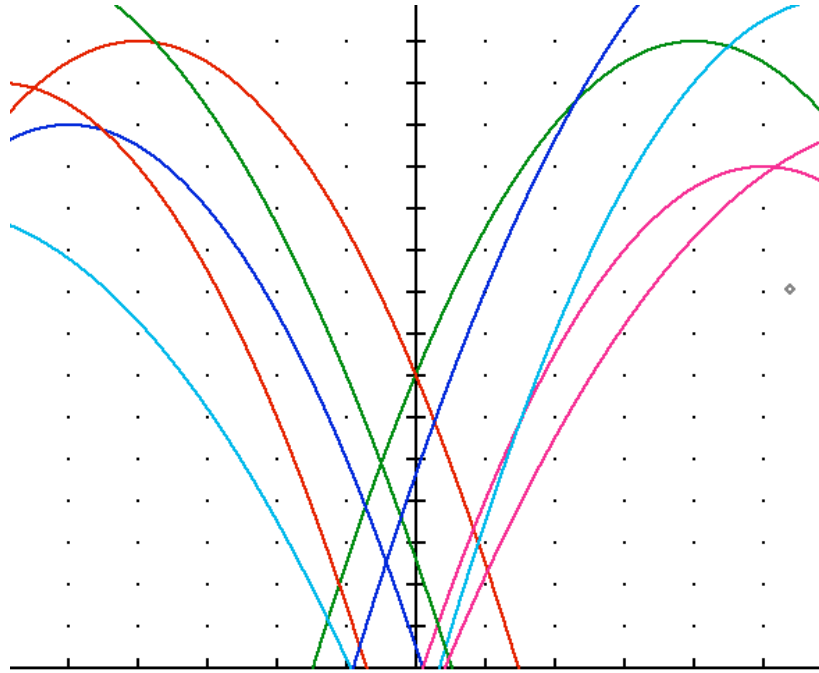


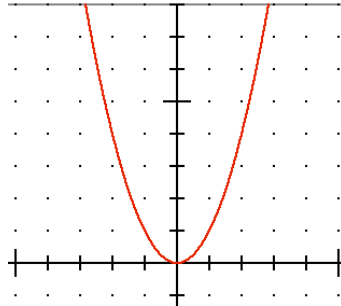
Playing with my calculator on the 4th of July



I wondered if I could make a fireworks display on my graphing calculator. Can you help me?

I'm going to try to graph parabolas like $Y = X^2$ to make some nice arching curves.

Here's a graph of $Y = X^2$.



1. What should I do to the equation to turn this parabola upside down? Feel free to play on your calculator like I just did to figure this out.
2. I think the parabola needs to be fatter. How shall I change the equation to get my parabola wider?
3. Fireworks don't really explode near the ground so I think I should make my calculator's window less wide so that I can't see much of the final downward slope of the graph. How might I change my graphing window?

