Math 6d: Homework 17

Due: February 10

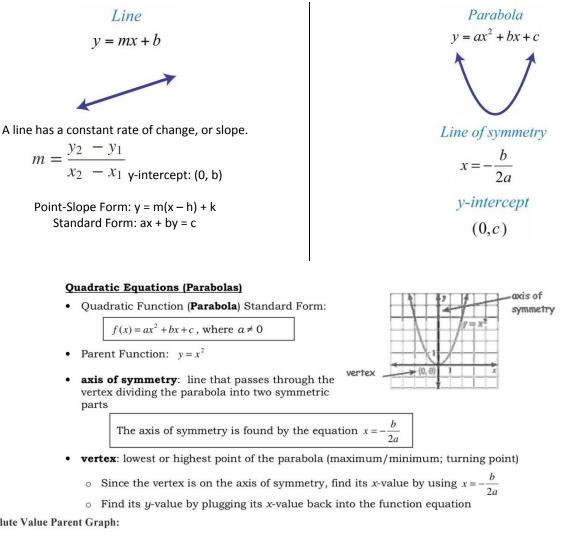


Please be prepared to hand in.

Notes

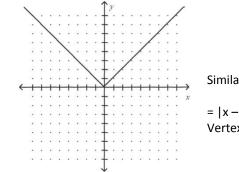
Graphs

We know that any linear equation with two variables can be written in the form y=mx+b and that its graph is a line. In this section, we will see that any quadratic equation of the form $y=ax^2+bx+c$ has a curved graph called a parabola.



Absolute Value Parent Graph:

Y



Similar to a parabola, there is a turning point.

= |x - h| + kVertex (h, k)

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Homework

- 1. Find the equation of the line which passes through point (3,4) and has a slope +2. (Hint: you only need to find the intercept and write y = mx+b)
- 2. Find the equation of the line through points (-2, 0) and (0,2).
- 3. Graph $y = x^2 4$
- 4. Graph $y = -\frac{1}{2}x^2 + x + 2.5$
- 5. Graph y = |x| + 26. Graph y = -|x+1| + 4