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More Quadratic functions

aka (Parabolas)

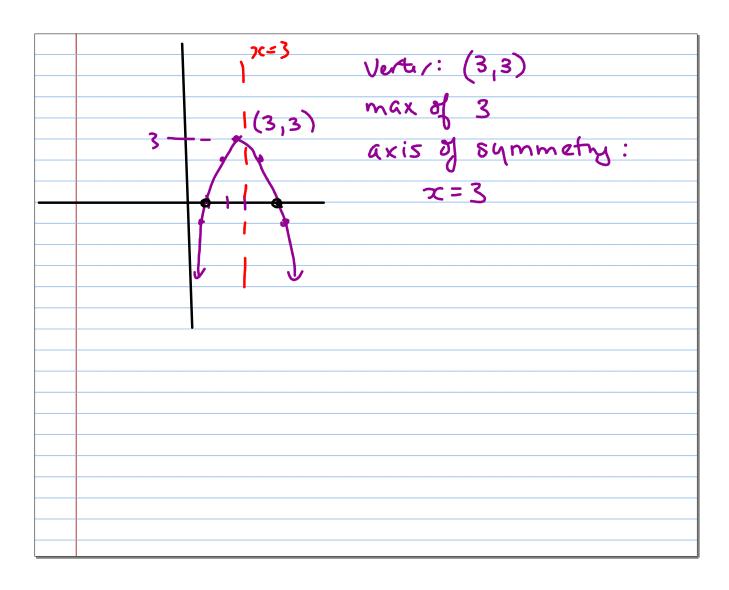
Uertex Form: 
$$y = a(x-p)^2 + q$$

Uertex:  $(p,q)$ 

Recall: A q.f. has an  $x^2$  (no higher or weirdpowers of x)

 $y = (x-3)^2 + 2$ 
 $y = x^2 + 3x + 2$ 
 $y = x^2 + 2x$ 
 $y = x^2 + 2x$ 
 $y = x^2 + 3$ 
 $y =$ 

Untitled.notebook March 25, 2013



## Standard Form

$$y = x^2 + 2x + 3$$
 =  $8 = 2$   
 $y = Ax^2 + Bx + C$  C = 3

$$y = 3x^{2} + 2x + 3$$
 $y = 3x^{2} + 2x + 19/$ 

Using Your Graphing Calc:

To find vertex:

2nd function Trace

Max or min

- Cursor to LEFT of vertex (enter)
- cursor to <u>RIGHT</u> of vertex (entir) Guess? (Ignore! enter)

## OC-INTERCEPTS:

- · 2nd function Trace (rale)
- · "ZEROES"
- · Curser on the left of the intersection a hit enter, same on the right
- · Guess? Enter

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TODAY Work on 3.2
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
when you are done, go back 4 finish 3.1
of Cinich 3
7 7111311 311
•
tomorrow we more on to 3.3