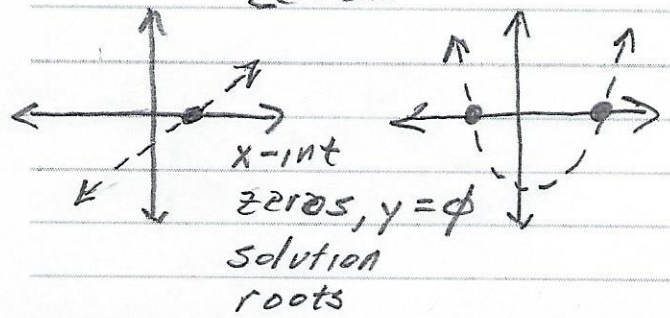


### zeros



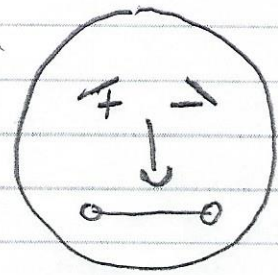
Name Gonzalez

Function Pd 1/2  
 F F F  
 graph Ordered Table  
 VLT Pairs  
 x cannot Repeat

### Domain/Range

Two Boundaries One Boundary  
 Domain  
 How Far, Left  $< X < Right$   $x >$   
 Range high  $L < y < H$   $y >$   
 low  $y <$   
 (underline  $\leq$  or  $\geq$  it includes)  
 $x \in y$

### Slope



Slope  
 rate of change  
 rate  
 constant change  
 rise/run  
 miles per hr  
 steepness  
 $\frac{\text{change in } y}{\text{change in } x}$

### y-axis

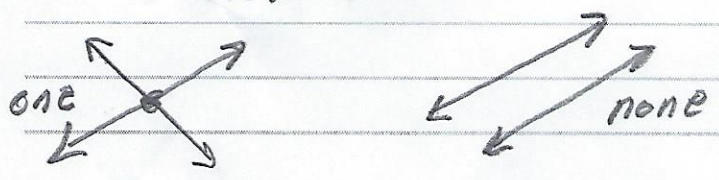
dependent effects outputs  $f(x)$

independent  $x$ -axis  
 cause input

### parallel - perpendicular

K / F C  
 keep slope Flip slope change sign  
 undefined,  $x =$  zero

### Systems



~~infinite~~  
 infinite

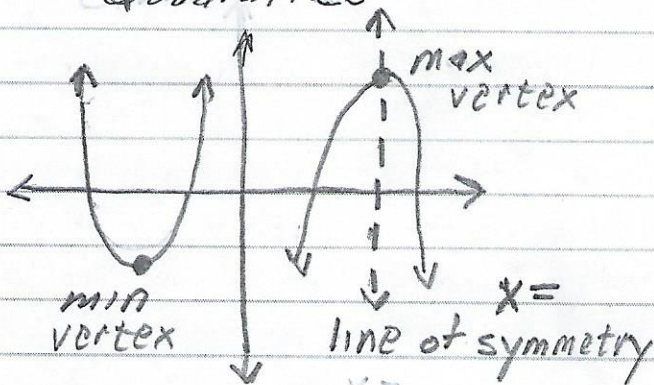
$f(1)$   $f(2)$   
 $2x + 4 = 3x - 8$

Graph  
 Find  $x$  value of intersection

### Inequalities

Root top  
 under root  $\leq$  solid line  
 above root  $>$  dashed line

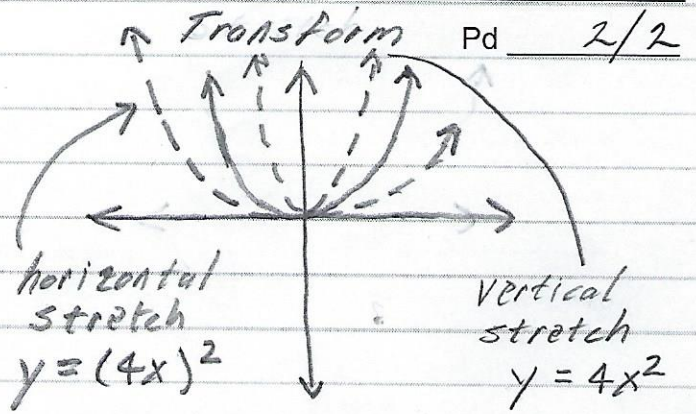
## Quadratics



x-value (x, y)  
is line of sym

y-value is  
max or min

Name Gonzalez



## Factoring

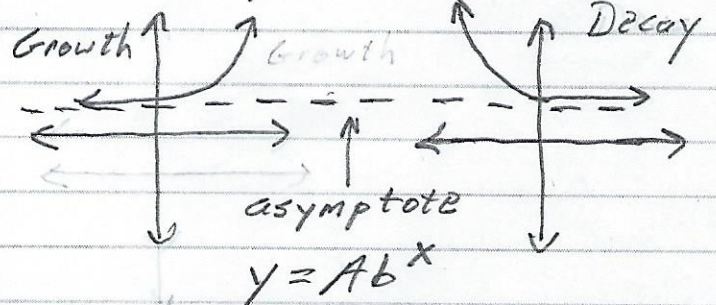
f(1) Type in Quadratic Eqn

f(2) Type in linear factor

f(3) Type in 2<sup>nd</sup> linear factor

Look at graph to see if  
lines intersect at zeros  
of parabola

## Exponential



A - initial value

b - rate, 5%

x - time

Growth  $b > 1, 1 + .05$

Decay  $b < 1, 1 - .05$