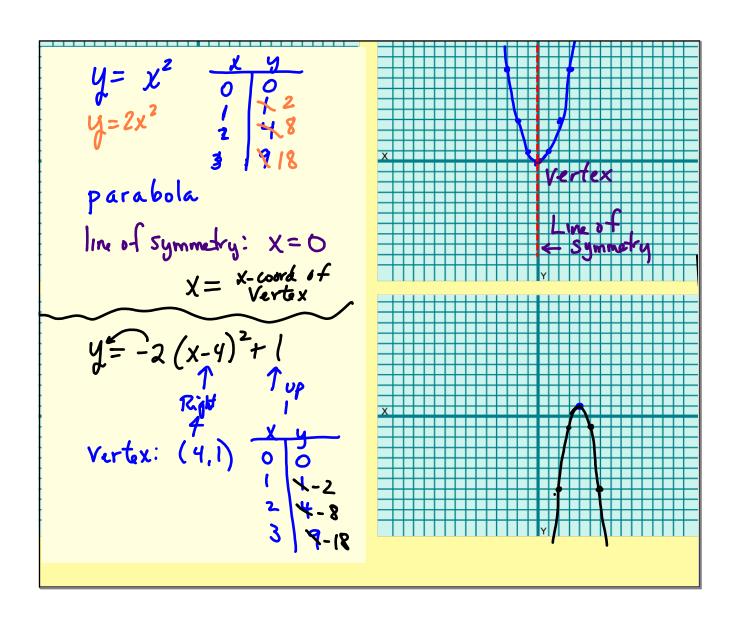
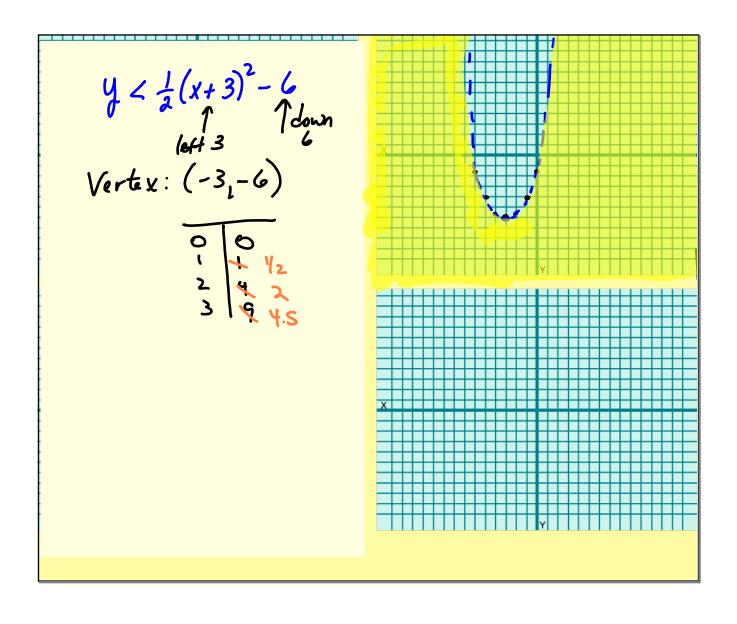
QUADRATIC FUNCTIONS

$$y = \alpha x^2 + bx + C$$
 - must have x^2 as highest power term.
 $x^2 - 2x - 14$





$$y = -5(x-4)^2 + 7$$

Book - Desen be all transformations

Up / RgH 4

Reflect over x-axis

narrow (vertical stratch)

$$y = \frac{2}{3}x^2 - 5$$
Down 5

Vertex: (0,-5)

Line of Symmetry: X=0

Direction: UP

Width: Wide

y=a(x-h)2+K
Rynt UPK

Vertx: (h,K)

Line of symm: x= h

Direction: ta UP

Width:

|a=| normal |a>| Narrow 02|a|2| Wide y = (x+81) 2

Vertex: (-81,0)

Fire of X =-81

Direction: upward

Width: normal