

Topic: the parabola family
 textbook: p. 204

Fact: all "quadratic"
 functions graph as
 parabolas; all parabolas
 come from "quadratic"
 functions.

What is a quadratic
 function?

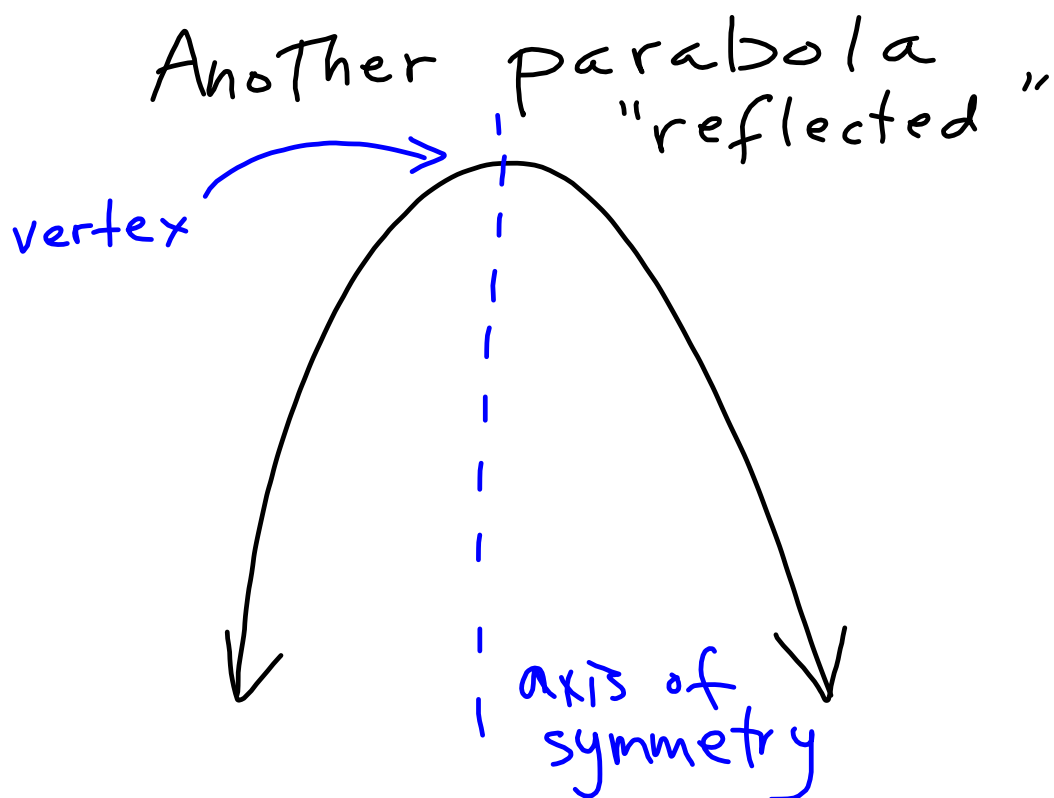
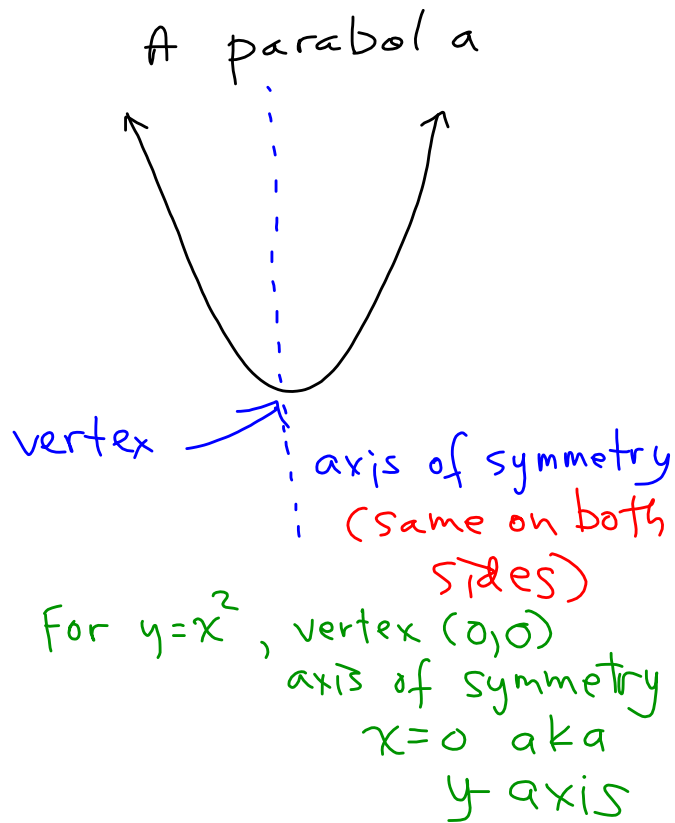
(look for x^2 term,
 $3x^2$, $-5x^2$, etc)

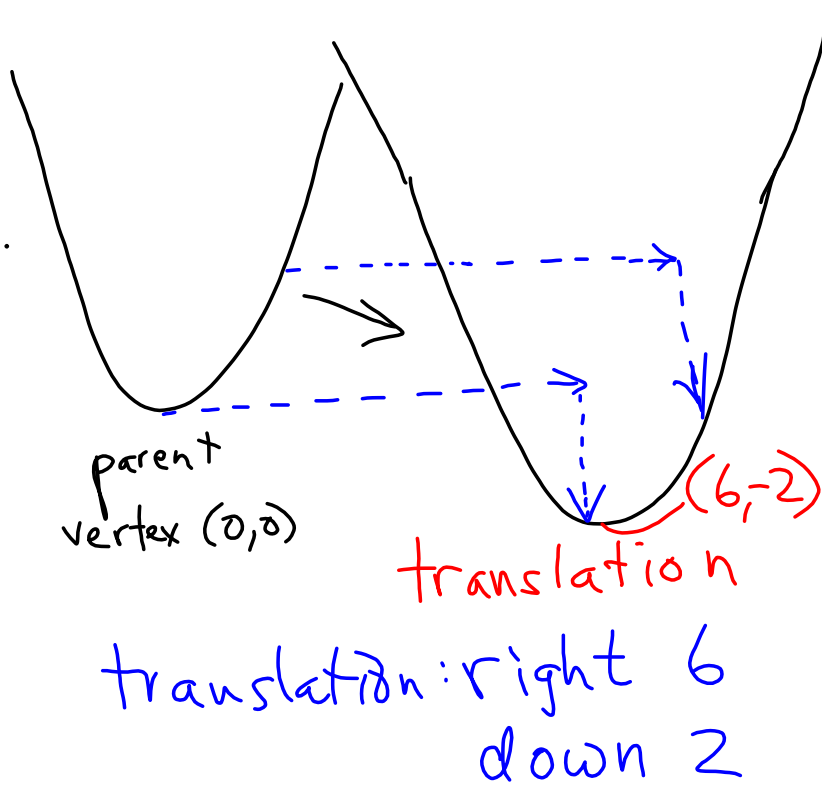
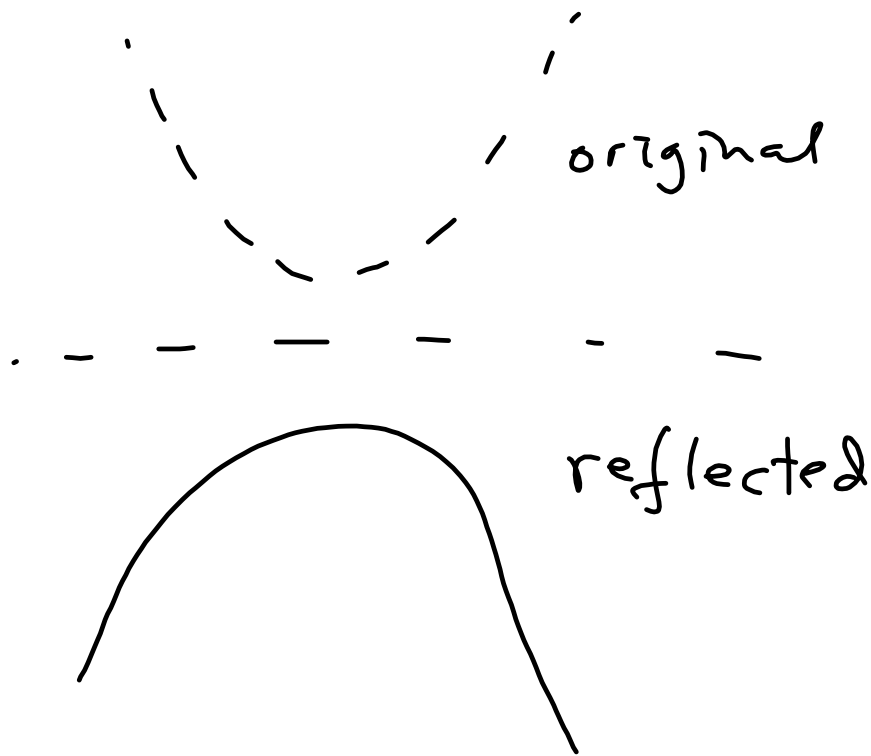
Examples: $y = x^2$ (Mom)
 "parent" fcn

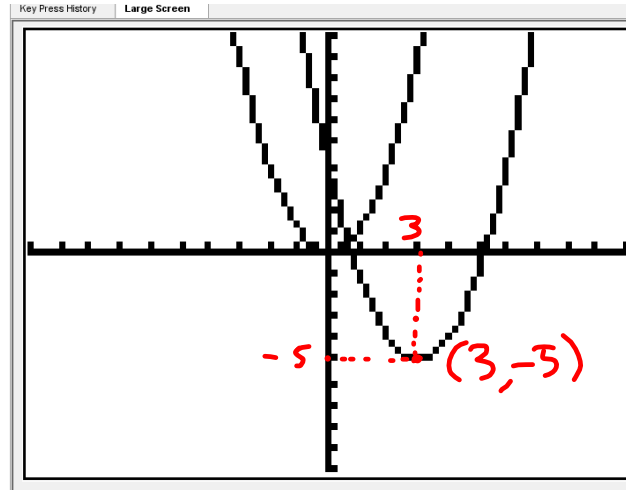
$y = (x-3)^2 - 5$ "child"

$3x^2 + y = -2$ "child"

$-4x^2 + 2x - y = 0$
 "child"







right 3
down 5
flipped? no