

Replace x by 0

y-intercept?

Replace x by values that seem like a good idea!

Table of values?

QUADRATIC FUNCTIONS

Equation: $ax^2 + bx + c$
use vertex form and use another point to find a

VERTEX?

$\frac{-b}{2a}$
if standard form

$y = a(x-p)^2 + q$
(p, q)

if vertex form

by graphing
(calc: no exact values)

ZEROS?

if factored form

$\hookrightarrow (2x-5)(x+1)=0$
 $2x-5=0 \rightarrow x=5/2$
 $x+1=0 \rightarrow x=-1$

if vertex form

$\hookrightarrow 2(x-3)^2 - 10 = 0$
 $2(x-3)^2 = 10$
 $(x-3)^2 = 5$
 $x-3 = \pm\sqrt{5}$
 $x = 3 \pm\sqrt{5}$

Quadratic formula

if standard form