The effect of a, b, c, h, k on the shape of a Parabola

$y = ax^2 + bx + c$	Standard/General Form
$y = a(x - h)^2 + k$	Shifted/Vertex Form
$y = a(x - r_1)(x - r_2)$	Factored Form
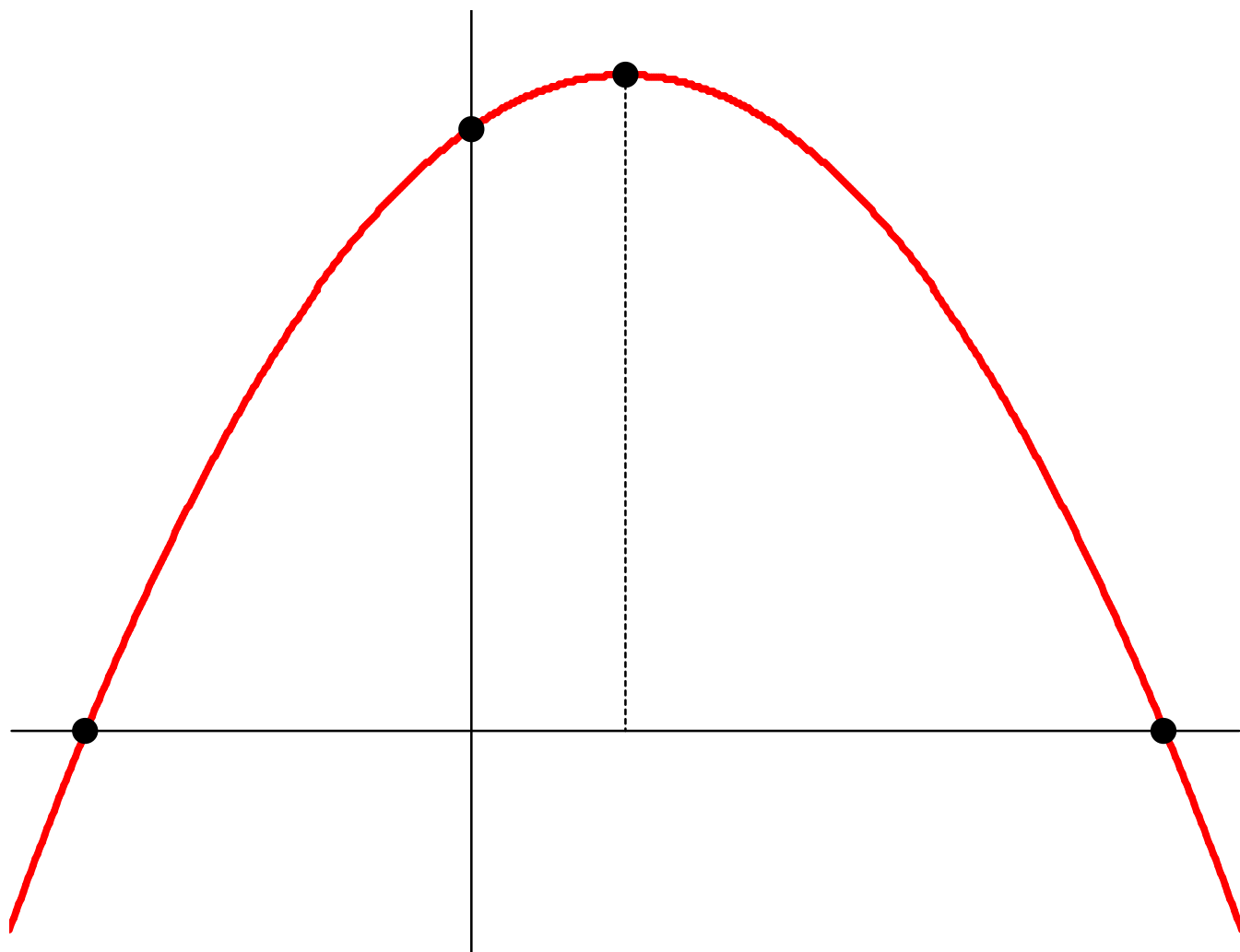
Summarize how each of the following relates to/effects the Parabola:

a: _____

_____

_____

$\dfrac{-b}{2a}$: _____

_____

_____

c: _____

_____

_____

h: _____

_____

_____

k: _____

_____

_____

r_1 & r_2: _____

_____

_____

$\dfrac{r_1 + r_2}{2}$: _____

_____

_____

$D = \sqrt{b^2 - 4ac}$: _____

_____

_____

What is the relation between root, zero & x-intercept? _____

_____