Quadratic Functions

The minimum or maximum point of a parabola.

(x, y)

min

max

axis of symmetry
$x = -2$

vertex
$(-2, -8)$

y-int
$(0, -5)$

parabola — a "U" shaped graph of a quadratic function
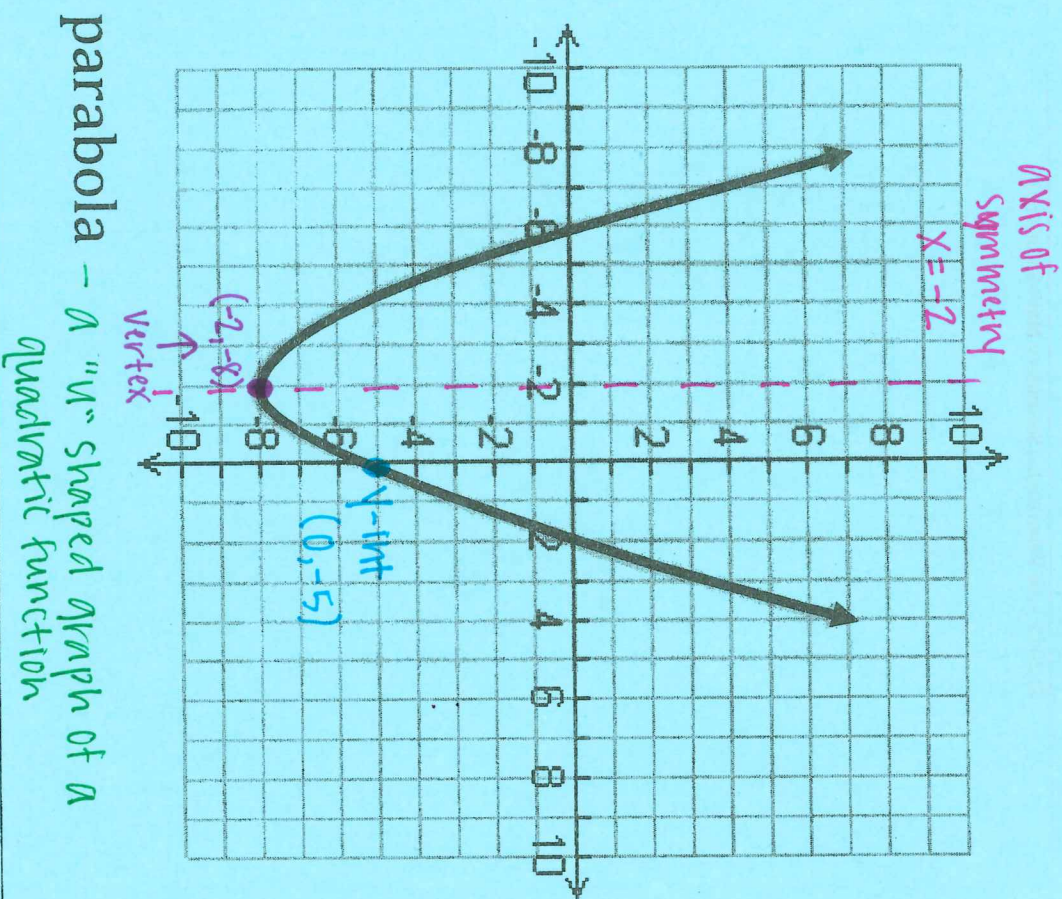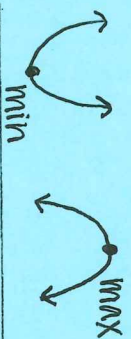
The line that cuts the parabola into 2 equal parts (verticle line)

$x =$ the x-coordinate of the vertex

where the graph crosses the y-axis