

Name:

YouTube - Fort Bend Tutoring – Graphing Quadratic Functions (Vertical Parabolas) – Guided Notes

Standard Form

$$y = ax^2 + bx + c$$

$a =$

upwards

$a =$

maximum

$|a| > 1$

Vertical Stretch

$0 < |a| < 1$

Wide

$\text{Vertex} =$

$h =$

$k = f(h)$

AXIS OF SYMMETRY $x =$

Vertex Form

$$y = a(x - h)^2 + k$$

$a =$

upwards

$a =$

maximum

$|a| > 1$

Vertical Stretch

$0 < |a| < 1$

Wide

$\text{Vertex} =$

$h =$

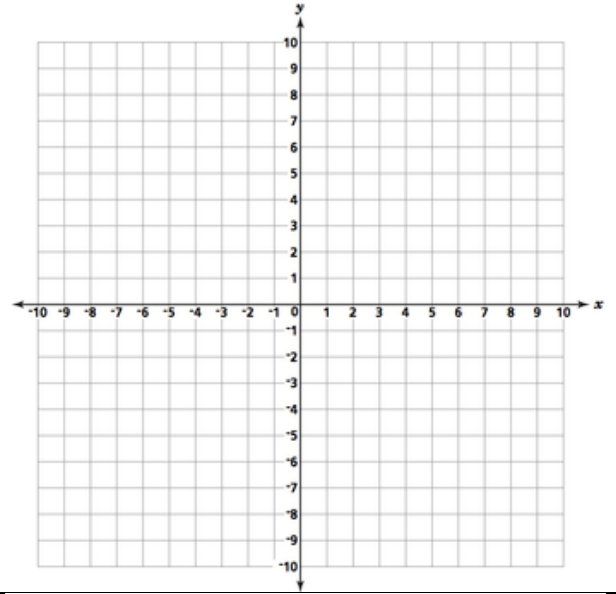
$k = f(h)$

AXIS OF SYMMETRY $x =$

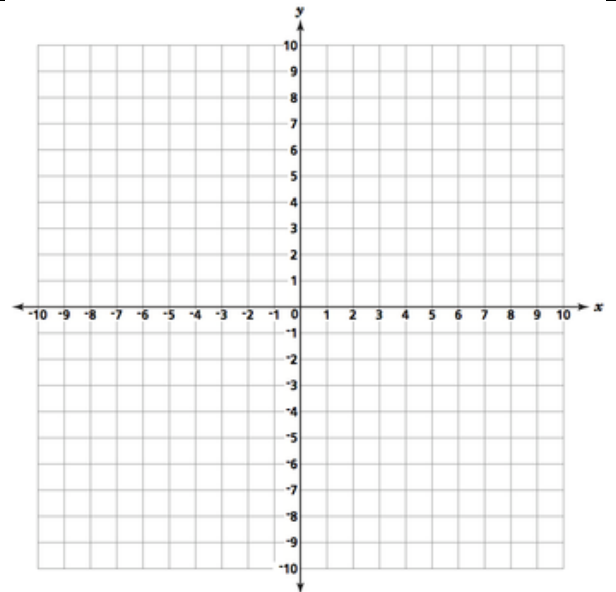
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Spaces for Examples

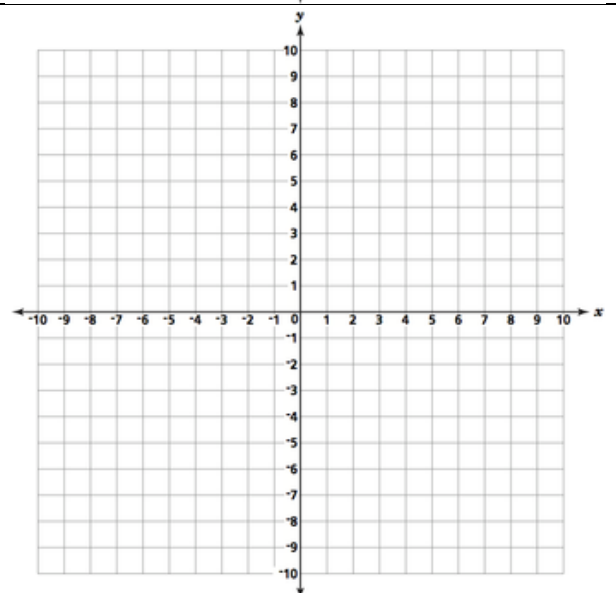
$$f(x) = x^2$$



$$f(x) = x^2 - 2x - 2$$



$$f(x) = (x - 2)^2 - 4$$



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