

Name: key

UNIT 8 DAY 17
HOMEWORK

Solve by graphing.

$$y = x^2 - 16$$

Max or Min? min

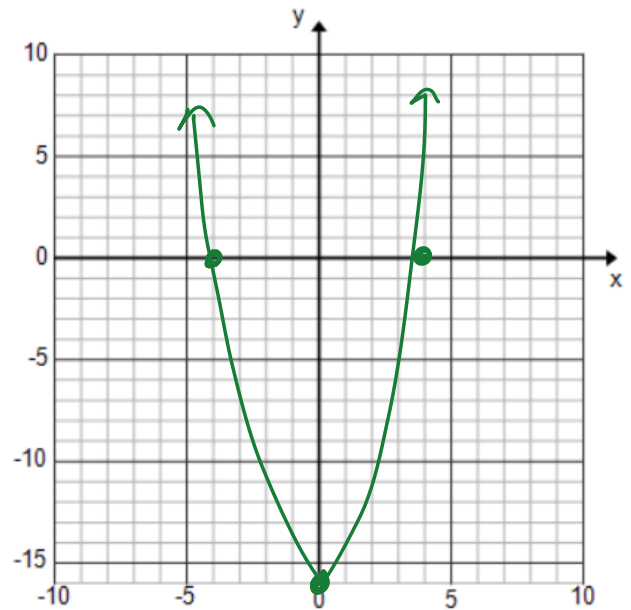
Up or Down? up

y-intercept: (0, -16)

Vertex: (0, -16)

x-intercepts: (4, 0) and (-4, 0)

$$\begin{aligned}x^2 - 16 &= 0 \\(x+4)(x-4) &= 0 \\x &= -4 \quad x = 4\end{aligned}$$



Find the solutions on the graphing calculator.

$$y = -4x^2 - 3x + 12$$

$$\begin{aligned}x &= -2.15 \\x &= 1.40\end{aligned}$$

$$y = x^2 - 6x - 4$$

$$\begin{aligned}x &= -0.6 \\x &= 6.6\end{aligned}$$

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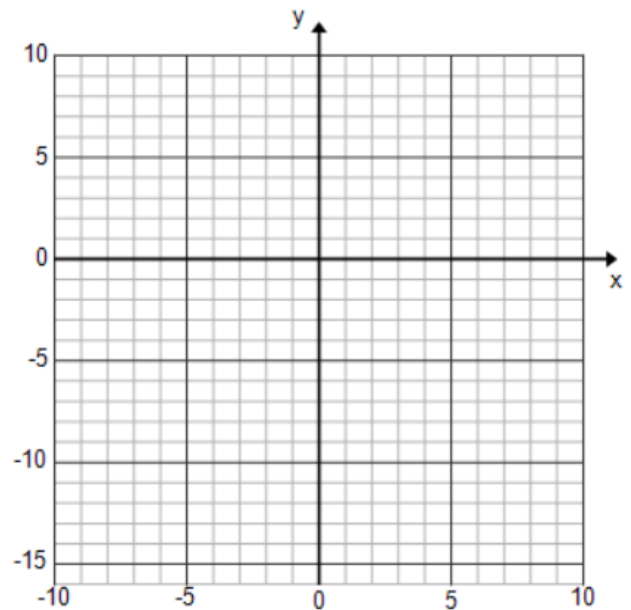
Max or Min? _____

Up or Down? _____

y-intercept: _____

Vertex: _____

x-intercepts: _____ and _____



Find the solutions on the graphing calculator.

$$y = -4x^2 - 3x + 12$$

$$y = x^2 - 6x - 4$$