

QUADRATIC HOMEWORK – HOMEWORK: GRAPHING QUADRATIC FUNCTIONS II*

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Abstract

Some more homework problems on graphing quadratic functions.

Put each equation in the form $y = a(x - h)^2 + k$ or $x = a(y - k)^2 + h$, and graph.

Exercise 1

$$y = x^2$$

Exercise 2

$$y = x^2 + 6x + 5$$

Exercise 3

Plot at least three points to verify your answer to #2.

Exercise 4

$$y = x^2 - 8x + 16$$

Exercise 5

$$y = x^2 - 7$$

Exercise 6

$$y + x^2 = 6x + 3$$

Exercise 7

Use a graph on the calculator to verify your answer to #6.

Exercise 8

$$y + x^2 = x^2 + 6x + 9$$

Exercise 9

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

Exercise 10

$$x = 3y^2 + 6y$$

Exercise 11

$$x^2 + y^2 = 9$$

Exercise 12

Explain in words how you can look at any equation, in any form, and tell if it will graph as a parabola or not.

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