Objective 2 - Graphing quadratic functions.

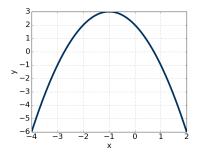
Describe the salient characteristics of quadratic functions.

Link to section in online textbook.

First, watch this video to review the main characteristics of a quadratic function. Feel free to pause the video and fill out the notes as you go.

Now practice working with converting between quadratic equations and their graphs below.

Question 1 Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming a = 1 or a = -1.

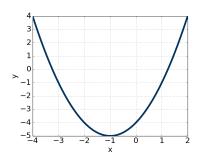


$$y = \boxed{-1}x^2 + \boxed{-2}x + \boxed{2}$$

Question 2 Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming a = 1 or a = -1.

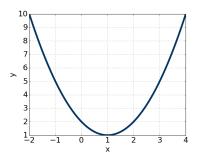
Learning outcomes: Understand and solve quadratic equations. Author(s): Darryl Chamberlain Jr.

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$$y = \boxed{1}x^2 + \boxed{2}x + \boxed{-4}$$

Question 3 Write the equation of the graph presented below in the form $f(x) = ax^2 + bx + c$, assuming a = 1 or a = -1.



$$y = \boxed{1}x^2 + \boxed{-2}x + \boxed{2}$$

Question 4 Graph the equation $f(x) = (x-3)^2 - 19$.

Multiple Choice:

- (a) A
- (b) B
- (c) C
- (d) D
- (e) $E \checkmark$

