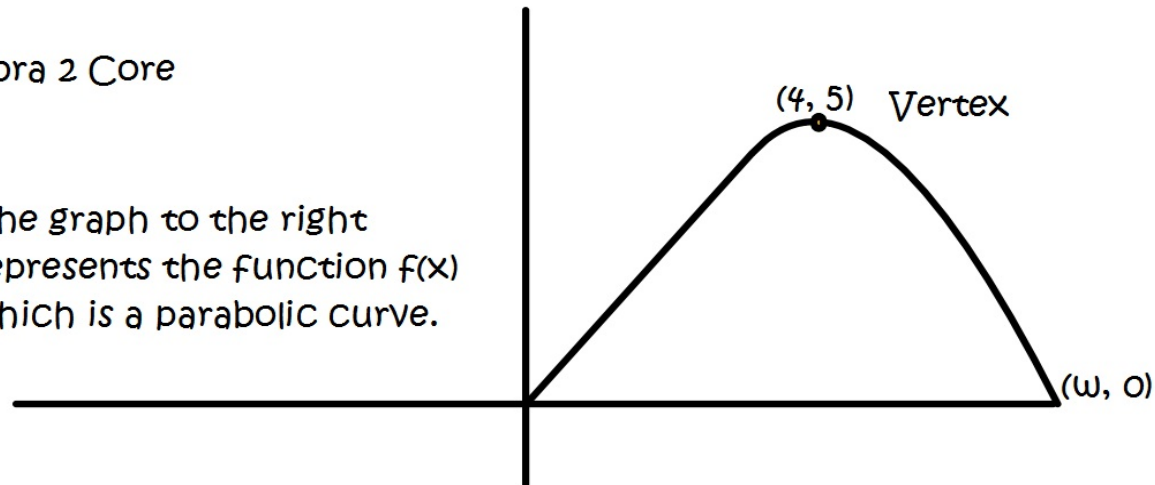


Warm Up
Day 11 Algebra 2 Core

The graph to the right
represents the function $f(x)$
which is a parabolic curve.



1. Circle the equation for the graph above.

$$y = -(x - 4)^2 - 5$$

$$y = -(x + 4)^2 + 5$$

$$y = -(x - 4)^2 + 5$$

2. Find the value of w .
3. Which value represents a reasonable value for $f(2)$? 7 3 1 -3
4. If the equation of a parabola is $y = 2(x - 8)^2 - 7$, then what is its vertex?
5. If $f(x) = 5(x + 1)^2 - 6$, what is the value of $f(2)$? Make sure you follow order of operations!!

Bonus: Turn the standard form of this equation into its vertex form by completing the square: $y = x^2 + 6x + 8$