ALGEBRA II Chapter 4 section 1 Graph Quadratic Functions in Standard Form pg. 236

FOCUS:

How are the values of a, b, and c in the equation $y = ax^2 + bx + c$ related to the graph of a quadratic function?

VOCAB:

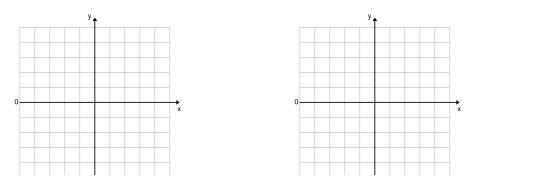
Quadratic function:
Parabola:
Vertex:
Axis of symmetry:
Minimum value:
Maximum value:
WARM – UP:

Find the x and y intercept. 1. 3x - 5y = 15

2. y = 2x + 7 _____

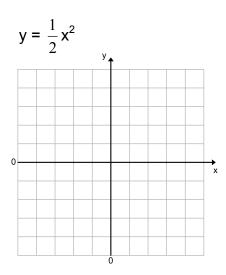
3. A ball is thrown so its height h, in feet, is given by the equation $h = -16t^2 + 10t$, where t is the time in seconds. What is the height when t is $\frac{1}{4}$ seconds?

NOTES:



4.1 notes pg.1

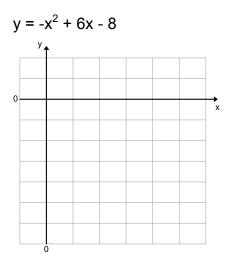
Graph and compare the graph with $y = x^2$.

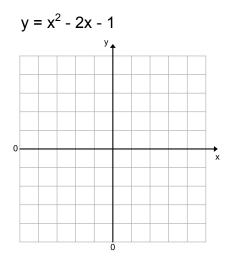


 $y = -2x^2 + 4$

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Graph. Label the vertex and axis of symmetry.





Tell whether the function has a minimum or maximum value. Then find the value.

 $y = -2x^2 + 4x + 3$ $y = 4x^2 + 16x - 3$

Let's see if you comprehended what we worked on in class...

for homework

Try _____