Class_11 Feb 9 - Quadratic Functions coming soon...

Wednesday, February 8, 2023

11:43 AM

Tonight's Class:

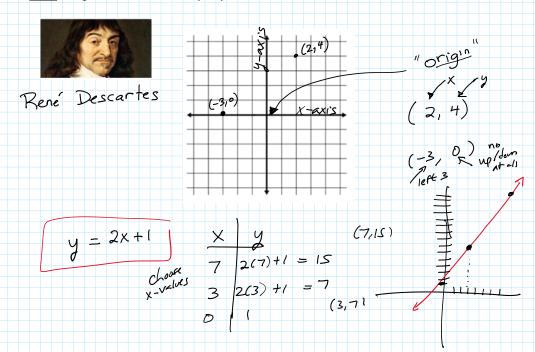
- · Unit 1 Test return and rewrite sign-up
- What about 3.3-3.6?
- · Reviewing graphing

4.1 Properties of a Quadratic Function

Focus: determine the characteristics of a quadratic function and sketch its graph

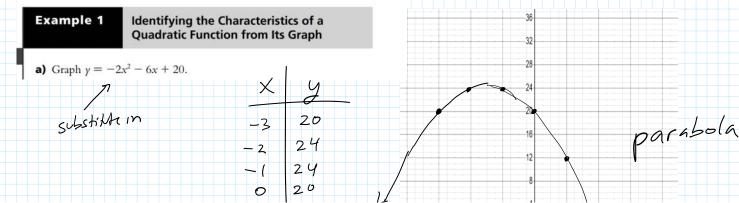
Graph a Quadratic Equation and Find its Characteristics

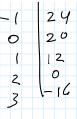
Recall: Using a Table of Values to Graph Equations

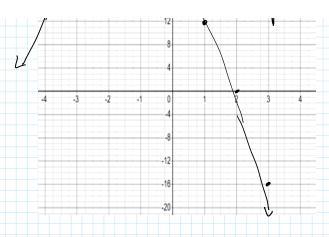


Graphing Equations

WT n 272







Try p 278, #8b - graph only

Quadratic Functions - what are they?

Quadratic - function that has a variable multiplied by itself, so it is "squared." The word quadratic comes from the Latin word for square, quadratum.

When we graph any quadratic function, the shape we get is called a PARABOLA.

$$y = ax^2 + bx + c, \ a \neq 0$$

(General Form)



$$3 \times 3 = 3^{2}$$

$$4 \times 4 = 4^{2}$$

$$4 \times 4 = 4^{2}$$



$$x \cdot x = x^2$$

Quadratic functions have real-world applications:

Parabolas in the "Real-World"



For next class • Complete the Chapter 3 Hand-in, due Feb 14 (next class!) • Prepare for the Chapter 3 Test, on Feb 14

