Applications of Quadratic Functions

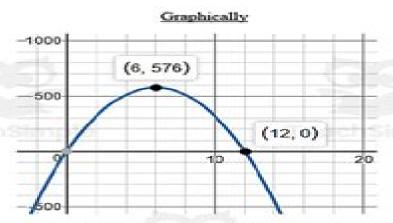
One of the most common applications of quadratic functions is projectile motion.

When objects are thrown or shot through the air, we can model them with parabolas.

 These functions are often named h(t), height as a function of time. Even if an object is shot straight up into the air, its graph will still appear to move forward, since time is always moving forward!

• Every object in projectile motion has the same force acting upon it: gravity. So we will notice similarities in each one of these functions: a leading coefficient of -16 (in feet) or -4.9 (in meters).

A water balloon is launched straight up. The balloon's flight is modeled by the function $h(t) = -16t^2 + 192t$, where h(t) is the height in feet after 't' seconds. Answer the following questions graphically and algebraically.



At what height did the water balloon start?

When did it reach its maximum height?

What was its maximum height?

When did it hit the ground?

Algebraically

At what height did the water balloon start?

When did it reach its maximum height? _____

What was its maximum height? _____

When did it hit the ground?

* What was its height at 9 seconds?

* Looking at its graph and considering the real-world context of this problem, select the appropriate domain:

A)
$$-2 \le t \le 12$$

B)
$$t \ge 0$$

C)
$$0 \le t \le 12$$

D)
$$0 \le t \le 15$$

Quadratic Functions Applications I Unit 5 L6 Arlington Algebra Project Answer Key

Yicheng Fang

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Whispering the Techniques of Language: An Emotional Quest through **Quadratic Functions Applications I Unit 5 L6 Arlington Algebra Project Answer Key**

In a digitally-driven earth where displays reign supreme and quick connection drowns out the subtleties of language, the profound techniques and psychological nuances hidden within words frequently move unheard. Yet, situated within the pages of **Quadratic Functions Applications I Unit 5 L6 Arlington Algebra Project Answer Key** a fascinating fictional value pulsating with natural emotions, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, this charming opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the mental depths of this touching evaluation, we shall embark upon a sincere exploration of the book is core subjects, dissect its fascinating publishing fashion, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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