

2.4 Modeling with Quadratic Functions

Essential Question How can you use a quadratic function to model a real-life situation?

Example 1 Modeling with a Quadratic Function

Model with a function. The graph shows a projectile's height over time.

$$h(t) = at^2 + bt + c$$

Write an equation for the graph, and describe the object's motion over the interval $[0, 4]$.

- Write the equation of a quadratic function in vertex form.
- Write an equation in vertex form for the parabola that passes through the origin and the point $(4, 0)$.
- The object's height decreases until about $t = 2$. Describe the path of the object between $t = 0$ and $t = 4$.
- Describe how the model is useful and why. Consider both qualitatively (describing, describing, describing) and quantitatively (measuring, measuring, measuring).



Example 2 Modeling with a Graphing Calculator

Model with a function. The table shows the height of a ball that is thrown straight up in the air.

Time t	0	1	2	3	4
Height h	0	100	200	300	400

- Use the graphing calculator to create a scatter plot of the data, an equation for the function, and the domain and range of the function.
- Use the equation to determine whether a quadratic model fits the data.
- Graph the quadratic function on the same coordinate plane as the scatter plot of the data.
- Describe the modeling discrepancy, if any.



Modeling with a Function
What are the advantages and disadvantages of modeling a real-life situation with a function?

Advantages: A function can be used to describe a real-life situation and predict its future behavior.

Communicate Your Answer

- How can you use a quadratic function to model a real-life situation?
- How do the advantages and disadvantages of modeling a real-life situation with a function compare to modeling a real-life situation with a linear function?



3 Quadratic Functions Big Ideas Learning

Lei Shi



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