DIGITAL

NAME _____

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Module 14 Graphing Quadratic Relations
Lesson 3 Solving Problems Using Quadratic Graphs

guided practice

Set 1

1. The equation $h = -16t^2 + 24t + 8$ can be used to show the height, in feet, of a stale muffin thrown from the window of an apartment. What was the height of the window from the ground?

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$h = -16t^2 + 24t + 8$

2. Use the "muffin" equation to determine how many seconds it takes for the muffin to reach its maximum height.

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3. Determine the maximum height of the muffin's flight.

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4. Sue has ten yards of fencing to enclose three sides of a rectangular garden. The fourth side is the wall of her house. What is the width of the rectangle that will give her the maximum area for her garden?

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_____

w w

$10 - 2w$

5. What is the maximum area of Sue's garden?

_____

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