

Warm Up 1.7

Name _____ Period _____

Use the functions provided to answer each question.

$$f(x) = x^2 + 8x$$

$$g(x) = x(35 - x)$$

1. Find $f(2)$
2. Find $g(10)$
3. Find $f(x) = 0$
4. Find $g(x) = 300$
5. Which function has a maximum? Which one has a minimum?

The function for the tortoise could be written as $r(t) = 2^t$ and the function for the hare could be written as $h(t) = t^2$

6. What would $r(6)$ be asking for with regard to the race?
7. What would $h(t) = 25$ mean in terms of the race?
8. What would $r(t) = h(t)$ mean in terms of the race?

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