

Reading Questions for Section 2.6

Name _____
Due Date: _____

Bring this completed sheet with you to class on the due date to be handed in at the very beginning of the period.

1. In the first example, what is traveling through the air?
 - a) a grapefruit
 - b) a high diver
 - c) a trapeze artist named the Great Santini
 - d) a baseball

2. In this section you found the *zeros* of a function. What is one way you can find zeros?

3. Carefully read Example 1 on page 89 and the paragraph below it.
Write the *factored form* of $f(x) = x^2 - x - 6$. $f(x) =$ _____

4. Look at Example 3 on page 89. In trying to find zeros of the function by solving an equation *using algebra*, the solution found was $x =$ _____.
Why is this solution **not** a real number?

Therefore what would we expect when we look at the *graph of a function* when we try to solve for zeros and get no real solutions?

5. In Example 5, how many times is the high diver exactly 10 meters above the water?
 - a) none
 - b) once
 - c) twice
 - d) three times

6. In Example 5, find all the values of t for which $h = f(t) = 10$. Use any means you wish but explain your reasoning. ("I did it on my calculator" is not sufficient.)