Reading Questions for Section 2.6 Name _____
(8pts) 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) 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

(1) 2. In this section you found the *zeros* of a quadratic function.
What methods are used to find zeros in this section?
A. Set $f(x) = 0$ and solve for x by factoring.
B. Set $f(x) = 0$ and solve for x by using the quadratic formula.
C. Use a graph to approximate when the function crosses the horizontal axis.
D. Use a graph to approximate when the function crosses the vertical axis.
E. Set $x = 0$ and find $f(0)$.
F. Both A, B, and C.

(1) 3. Carefully read **Section 2.6, Example 1** and the paragraph below it.
Write the *factored form* of $f(x) = x^2 - x - 6$. $f(x) =$ _____

(2) 4. Look at **Section 2.6, Example 3**. 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?
_____

(1) 5. In **Section 2.6, Example 5**, how many times does the quadratic model predict the high diver is at a height of 10 meters?
A. none
B. one
C. two
D. three

(2) 6. In **Section 2.6, 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.)