FREE FALL PROBLEMS

1. An Olympic diver jumps off a 3 meter height board into the water.
   The dive takes about 2 second.

   a. What is the diver's initial velocity?

Givens	Unknown	Equation	Substitute into equation	Answer with Units

   b. How high did they jump?

Givens	Unknown	Equation	Substitute into equation	Answer with Units

   c. What was their final velocity right before they hit the water?

Givens	Unknown	Equation	Substitute into equation	Answer with Units

   d. Fill in the graphs below of the diver from start to finish.