



A professional soccer player is 25.8 m from the goal, and kicks a hard shot from ground level. The ball hits the crossbar on its way down, 2.44 m above the ground, 1.98 s after it was kicked. What were the  $x$  and  $y$  components of the ball's initial velocity? Take upward to be the positive  $y$  direction.

Why?


**Check your Why? with Mr. C before continuing.**

How?

**Show all work including substitution with units.**

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Open the short cut **IP Proj Soccer** in the folder on one of the lab stations.  
 Enter the answer you found above. Check your answer by hitting the check button.  
 If your answer is not correct follow the interactive steps below the problem to work through the solution. Write the correct steps with solution on the back of this page.