



In a uniform electric field, the potential changes from  $14.0 \text{ V}$  to  $32.6 \text{ V}$  in a displacement of  $0.130 \text{ m}$  (the direction is opposite to the field, as shown). What is the magnitude of the acceleration of a proton (charge  $1.60 \times 10^{-19} \text{ C}$  and mass  $1.67 \times 10^{-27} \text{ kg}$ ) that is placed in this field?

Why?

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

How?

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

Open the short cut **E Pot 3** 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 solution on the back of this page.