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*Proton in a well*. The figure shows electric potential *V* along an *x* axis. A proton is to be released at *x* = 3.5 cm with initial kinetic energy 3.5 eV. The scale of the vertical axis is set by *Vs* = 10.0 V. **(a)** If it is initially moving in the negative direction, it either reaches a turning point (if so, what is the *x* coordinate of that point) or it escapes from the plotted region (if so, what is its speed at *x* = 0)? **(b)** If it is initially moving in the positive direction, it either reaches a turning point (if so, what is the *x* coordinate of that point) or it escapes from the plotted region (if so, what is its speed at *x* = 6.0 cm)? **(c)** What is the electric force (including sign) on the proton if the proton moves just to the left of *x* = 3.0 cm? **(d)** What is the electric force (including sign) on the proton if the proton moves just to the right of *x* = 5.0 cm?

