Name:	Solins	
Student	Number:	

(2<sup>pts</sup>) 1.

An electron moves along the trajectory from i to f.

a. Does the electric potential energy increase, decrease, or stay the same?

For pt. charges  $U = \frac{Kq_1q_2}{r}$  (0 for charges  $\frac{d}{r}$  of opp. sign.  $\angle P.E.$  gets less neg. (i.e. increases) as neg. charge moves from i to f.

b. Is the electron's speed at f greater than, less than, or equal to its speed at i?

If P.E. increases, the K.E. decreases.

I final speed is less than the initial-speed.