Potential
$$AV = V_B - V_A = -\int_{A} \vec{E} \cdot d\vec{l}$$

ref. at
$$\infty$$

$$\chi_1$$
 χ_2

$$\frac{-W(x,\rightarrow x_2)}{q}$$

$$= -\frac{1}{q} \int_{F} \vec{dx}$$

$$=-\frac{1}{9}(x_2-x_1)$$
 Eq

$$= (x_1 - x_2) E$$

$$\begin{array}{c|c} & p(a,y,y) \\ \hline \\ da(a',y',y') & \\ \end{array}$$

V due to charge disk