$$E = \frac{1}{2} m \left( \frac{dx}{dt} \right)^2 + V(x)$$

$$T = \frac{1}{4} t (o \rightarrow a)$$

at 
$$x=0$$
 /  $x=a$   $\frac{dx}{dt}=0$ 

at 
$$x=a: E=V(a)$$

$$V(a) - V(x) = \frac{1}{2} m \left(\frac{dx}{dt}\right)^{2}$$

$$\frac{dx}{dt} = \sqrt{\frac{2}{m}} \left( V(a) - V(x) \right) \qquad m=1$$

$$\frac{dt}{dx} = \frac{1}{\sqrt{2}} \frac{1}{\sqrt{V(a) - V(x)}}$$

$$dt = \frac{1}{\sqrt{2}} \frac{dx}{\sqrt{V(a) - V(x)}}$$

$$t = \int_{0}^{\infty} \frac{1}{\sqrt{2}} \frac{dx}{\sqrt{u(a)-u(a)}}$$

$$\frac{1}{1} = \int_{0}^{A} \frac{4}{\sqrt{2}} \frac{dx}{\sqrt{V(a) - V(x)}}$$