

9.24.

мом. энергия

$$\phi(r) = - \int (\vec{F}, d\vec{r})$$

$$W_{\text{пот}} = - m \int (\vec{A}_0, d\vec{r}) = - m (\vec{A}_0, \vec{r})$$

$$\sim mgh$$

$$W_{\text{г.р}} = - \frac{1}{2} m \omega^2 r_{\perp}^2$$

$$\sim \frac{1}{2} k r^2$$