

The next seven questions pertain to the situation described below.



$$m = 17 \text{ kg}; \quad \mu_k = 0.4$$

$$d = 5.4 \text{ m}; \quad T = 75 \text{ N}$$

$$x = 3 \text{ m}.$$

A mass $m = 17 \text{ kg}$ is pulled along a horizontal floor with NO friction for a distance $d = 5.4 \text{ m}$. Then the mass is pulled up an incline that makes an angle $\theta = 32^\circ$ with the horizontal and has a coefficient of kinetic friction $\mu_k = 0.4$. The entire time the massless rope used to pull the block is pulled parallel to the incline at an angle of $\theta = 32^\circ$ (thus on the incline it is parallel to the surface) and has a tension $T = 75 \text{ N}$.

- 1) What is the work done by tension before the block gets up the incline? (On the horizontal surface.)

$$W_T = 343.46 \text{ J.}$$

$$\mu_k = 0; \quad W_T = \int_0^d \vec{T} \cdot d\vec{r} = \int_0^d |\vec{T}| |d\vec{r}| \cdot \cos\theta =$$

$$= |T| \cos\theta \int_0^d |d\vec{r}| \Rightarrow T \cdot \cos\theta \cdot d = W_T$$

- 2) What is the speed of the block right before it begins to travel up the incline?

$$V_f = 6.36 \text{ m/s.}$$

$$\text{② Motion is horizontal} \Rightarrow W_N = W_g = 0$$

$$\Rightarrow W_{\text{net}} = W_T = \frac{1}{2} m V_f^2 - \frac{1}{2} m V_i^2 \Rightarrow$$

$$V_f = \sqrt{\frac{2 W_T}{m}} \Rightarrow V_f = \sqrt{\frac{2 \cdot 343.46}{17}} = 6.36 \text{ m/s}$$

- 3) What is the work done by friction after the block has traveled a distance $x = 2.6 \text{ m}$ up the incline? (Where x is measured along the incline.)

$$W_k = -152.7 \text{ J.}$$

$$\text{③ } W_k = -\int_0^x \mu_k \cdot N \cdot dx = -\int_0^x \mu_k \cdot mg \cos\theta \cdot dx$$

$$W_k = -\mu_k \cdot mg \cdot \cos\theta \cdot x \Big|_0^3 = -0.4 \cdot 17 \cdot 9.8 \cdot \cos 32^\circ \cdot 3 = -152.7 \text{ J}$$

- 4) What is the work done by gravity after the block has traveled a distance $x = 2.6 \text{ m}$ up the incline? (Where x is measured along the incline.)

$$W_g = -265.124 \text{ J.}$$

$$\text{④ } W_g = -\int_0^x mg dy = -\int_0^x mg \sin\theta \cdot dx$$

$$W_g = -mg \sin\theta \cdot x \Big|_0^3 = -17 \cdot 9.8 \cdot \sin 32^\circ \cdot 3 = -265.124 \text{ J}$$

- 5) How far up the incline does the block travel before coming to rest? (Measured along the incline.)

$$5) \Delta K = \frac{m V_f^2}{2} - \frac{m V_i^2}{2} = 0 - \frac{1}{2} m \left(\frac{2 T \cos\theta d}{m} \right)$$

$$(V_i \text{ for this part is the } V_f \text{ for 2)}$$

- 6) On the incline the net work done on the block is:

$$W_g = -mgx \sin\theta \rightarrow \text{from 4)}$$

$$W_k = -\mu_k mg \cos\theta x \rightarrow \text{from 3)}$$

$$\Rightarrow W_T (\text{on the incline}) = T \cdot x \cdot \cos 0^\circ = T \cdot x \rightarrow \text{from 1)}$$

- a. positive
b. zero
c. negative

Uw Physics Tutorial Homework Answers

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