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shaimae work done by gravitational force

d

$$W_{net} = OR$$

 $w_{gq} w_{T} = K_{p} - K_{i}$
 $a = 0$
 $L \Rightarrow v_{p} = v_{i}$

$$wg + w_T = 0$$

$$W_T = -Wg$$

$$Case 21 \qquad Wg = mg \cdot d$$
$$= mg \cos 180 c$$
$$Wg = -mg d$$
$$W_T = mg d$$

Case 31

$$Wg = mg \sin \phi \cdot d$$

= mg sin $\phi d \cos 0$
= mg sin ϕd

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work done by
Variables
$$\vec{F}$$

 $w = \int_{r_{i}}^{r_{f}} \vec{F} \cdot d\vec{r}$
 $= \int_{r_{f}}^{r_{f}} (\vec{F}_{x,i} + \vec{F}_{f}) + \vec{F}_{z} \cdot \vec{r}_{z}) \cdot (dxt + dyf + dzt)$
 $= \int_{r_{f}}^{x_{f}} \vec{F}_{x} dx + \int_{f}^{y_{f}} \vec{F}_{y} dy + \int_{z_{i}}^{z_{f}} \vec{F}_{z} dz$
 $remark$: $\vec{F}_{i} = 2t + 3f \rightarrow x_{i} = 2$ $y_{i} = 3$
 $\vec{F}_{f} = 3t \rightarrow x_{F} = 3$ $y_{F} = 0$
work done by a spring Force
 $\vec{F}_{s} = -\vec{K} \cdot \vec{x} \rightarrow Hook's law$
 \vec{F}_{y} th
 $L_{j} = 15 \times I \cos(4) \ln 5 - 3$
 $w_{s} = \int_{x_{i}}^{y_{f}} \vec{F}_{x} dx$
 $= \int_{x_{i}}^{x_{f}} - \vec{K}_{x} dx$
 $= -\frac{k}{2} \int_{x_{i}}^{x_{f}}$

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Shainde
Shainde
Shainde

$$UF = U'_{1}$$

 $UF = U'_{1}$
 $Whet = \Delta K$
 $Whet = \Delta K$
 $Where = 0$
 $Where = -Ws$
 $W_{1} = 0$
 $W'_{1} = 0$

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