No.

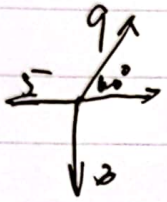
Date

ch7.

4. $\phi=0$ 时 $W=\vec{F}\cdot\vec{s}$ $\therefore \vec{F}_a=5N$.

$\therefore \phi=64°$ 时 $W_1=\vec{F}\cdot\vec{s}\cdot\cos 64°=25\cdot\cos 64°=10.95J$.

$\phi=147°$ 时 $W_2=25\cdot\cos 147°=-20.97J$

15. 

$\Sigma\vec{F}_{合x}=0.5N$ (向左)

$\Sigma\vec{F}_{合y}=\left(\frac{9}{2}\sqrt{3}-3\right)N$ (向上)

$\therefore W=\Sigma\vec{F}_{合}\cdot s=\frac{3}{2}J$.

kinetic energy increase

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向右为正方向.

$W_1=-(640+400)\times 3\times10^{-2}\times\frac{1}{2}=15.6J$.

$W_2=-15.6J$.

$W_3=+(640+800)\times 2\times10^{-2}\times\frac{1}{2}=14.4J$.

31. $W=+(2+4)\times10\times\frac{1}{2}-2\times5\times\frac{1}{2}=30-5=25J$

48. (a) $P=F\cdot 0$ 又 $\vec{F}=0$ 由 $P=0$.

(b) $\vec{F}=k\cdot\Delta x=45N$.

由动能定理 $\frac{1}{2}mv^2$ $E_{K2}-E_{K1}=\Delta E_p$

$\therefore E_{K2}=10-\frac{1}{2}\cdot450\times0.01=10-2.25=7.75J$.

$\therefore v=\sqrt{\frac{2E_{K2}}{m}}$

$P=F\cdot v$ 代入 $\therefore P=3\times10^2W$.

49. 由动能定理

$0-0=-mgh+W_{克}$ $\vec{F}=\frac{W_{克}}{h}=6321N$.

KOKUYO