

高中物理数学符号推导夯基

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班级：_____ 姓名：_____

(1) $v = v_0 + at$

$v_0 =$ _____ $a =$ _____ $t =$ _____

(2) $x = v_0 t + \frac{1}{2}at^2$

$v_0 =$ _____ $a =$ _____ $t =$ _____

(3) $v^2 - v_0^2 = 2ax$

$v =$ _____ $v_0 =$ _____ $a =$ _____ $x =$ _____

(4) $F = \mu mg \cos \theta + mg \sin \theta$

$m =$ _____ $\mu =$ _____ $g =$ _____

(5) $mgh_1 + \frac{1}{2}mv_1^2 = mgh_2 + \frac{1}{2}mv_2^2$

$v_1 =$ _____ $h_1 =$ _____

(6) $F_n = m\omega^2 r = m\frac{v^2}{r} = m\frac{4\pi^2}{T^2}r$

$\omega =$ _____ $v =$ _____ $T =$ _____

(7) $\frac{GMm}{R^2} = mg$

$$g = \underline{\hspace{2cm}} \quad M = \underline{\hspace{2cm}}$$

$$(8) \quad \frac{GMm}{R^2} = m \frac{4\pi^2}{T^2} R$$

$$T = \underline{\hspace{2cm}} \quad R = \underline{\hspace{2cm}} \quad \frac{T^2}{R^3} = \underline{\hspace{2cm}}$$

$$(9) \quad mgL \cos \theta_2 - mgL \cos \theta_1 = \frac{1}{2}mv_2^2 - \frac{1}{2}mv_1^2$$

$$v_1 = \underline{\hspace{2cm}} \quad v_2 = \underline{\hspace{2cm}} \quad L = \underline{\hspace{2cm}}$$

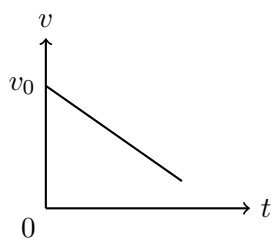
$$(10) \quad F \cos \theta = \mu(mg - F \sin \theta)$$

$$F = \underline{\hspace{2cm}} \quad m = \underline{\hspace{2cm}}$$

$$(11) \quad \begin{cases} F_1 \cos \theta + F_2 \sin \theta = mg \\ F_1 \sin \theta = F_2 \cos \theta \end{cases}$$

$$F_1 = \underline{\hspace{2cm}} \quad F_2 = \underline{\hspace{2cm}}$$

(12)



对于 $v = v_0 + at$, 加速度 a 与 0 的大小关系为:
 a 0 ($>$ 或 $<$)

对于 $v = v_0 - at$, 加速度 a 与 0 的大小关系为:
 a 0 ($>$ 或 $<$)

$$(13) \quad \varphi = \frac{E_p}{q}$$

若 $\varphi \uparrow, E_p \uparrow$, 则 q 0

若 $\varphi \uparrow, E_p \downarrow$, 则 q 0