

EL1-007 (2004-04-29)

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\tilde{F}

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$\tilde{a} \propto \tilde{F}$

$$\sum_i \tilde{F}_i = \tilde{a} \sum_j M_j$$

$$\sum_j M_j$$

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B	\tilde{F}	B	A	:	*
			$-\tilde{F}$	A	
		:			✓
					✓
					✓
		()	

2

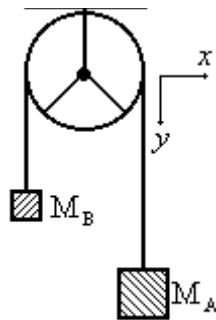
() ()

$$\sum_i F_{i(x,y,z)} - \sum_j R_{j(x,y,z)} = a_{(x,y,z)} \sum_k M_k$$

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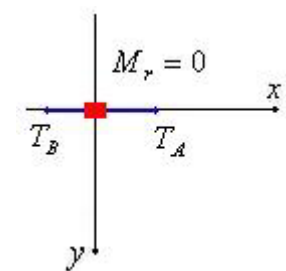
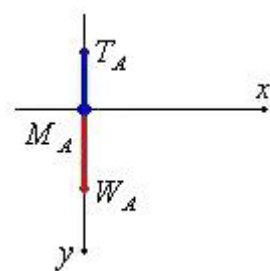
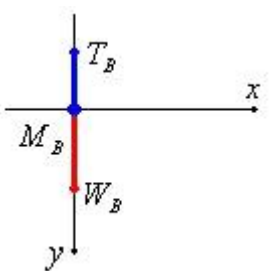
3

M_B M_A
B A



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[] , B , A ,
 , A
 .(W_A = M_A g) : ✓
 .(T_A) : ✓
 : B
 .(W_B = M_B g) : ✓
 .(T_B) : ✓
)
 :(
 .(T_A) : A ✓
 .(T_B) : B ✓
)
 (T_A A , A T_A
 []
 : []



. B A , () - :

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$$W_B - T_B = a_B M_B$$

$$W_A - T_A = a_A M_A$$

$$T_A - T_B = a_r M_r = 0$$

: , ,

$$W_B - T = a_B M_B$$

$$W_A - T = a_A M_A$$

$$T_A = T_B = T$$

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$$(a_B \ a_A \ T)$$

:
: B A ,

$$\ell := y_1 + y_2 + \pi R$$

)

:(

$$v_1 + v_2 = 0$$

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:(

$$a_1 + a_2 = 0 \Rightarrow a_1 = -a_2 =: a$$

: B A

$$W_B - T = -a M_B$$

$$W_A - T = a M_A$$

$$T := T_A = T_B$$

: ,

$$\begin{cases} a = \frac{W_A - W_B}{M_A + M_B} = \frac{M_A - M_B}{M_A + M_B} g \\ T = \frac{2M_A M_B}{M_A + M_B} g \end{cases}$$

, B A

$$y = \frac{1}{2} a t^2$$

)

.($y_0 = 0$

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M_B M_A

$y = 0.3m$	t	σ
$y = 0.5m$	t	σ
$y = 0.7m$	t	σ

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