



TOKYO BIG SIGHT

工学系
公務員試験
専門試験問題
演習講座

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物理

(解1) 物を1つ1つ見る.

$$A: ma = R_2 \dots \textcircled{1}$$

$$(N_2 = mg)$$

$$B: 5ma = F - R_2 \dots \textcircled{2}$$

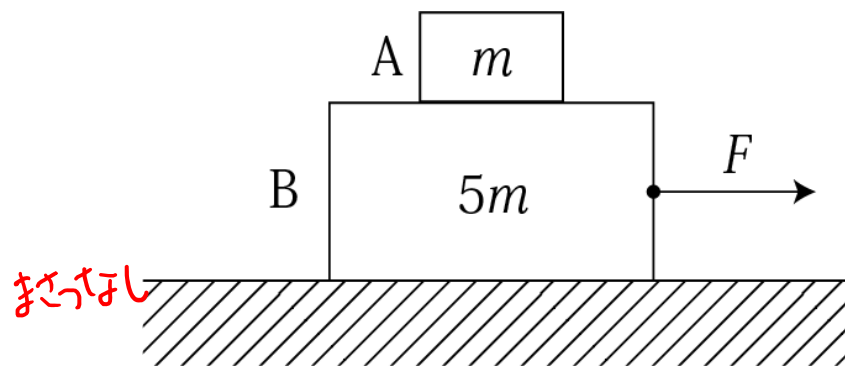
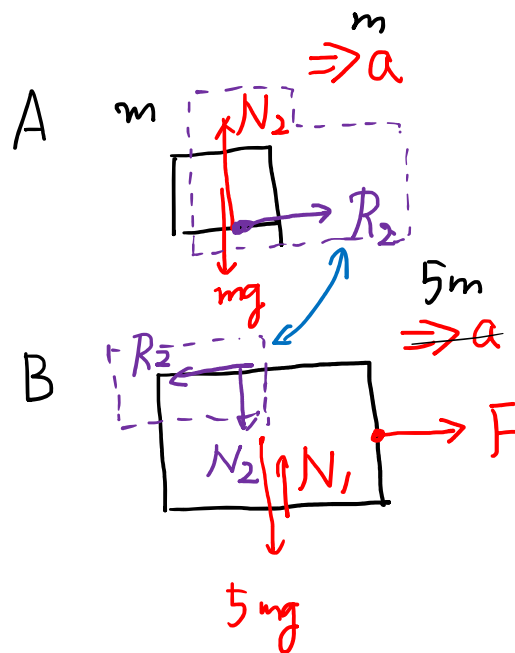
$$N_1 = N_2 + 5mg$$

$$\text{滑らない} \quad R_2 \leq \mu N_2 = \mu mg$$

$$\textcircled{1} \text{より} \quad a = \mu g$$

$$\textcircled{2} \text{より} \quad 5m\mu g = F - \mu mg$$

$$\therefore F = 6\mu mg //$$

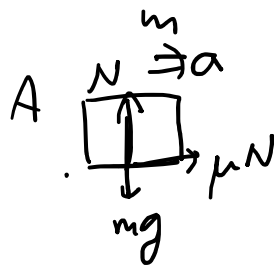


(解2) 全体を1つとすると

$$6ma = F \quad \therefore a = \frac{F}{6m}$$

$$A: \quad ma = \mu mg \Rightarrow \frac{F}{6} = \mu mg$$

$$\therefore F = 6\mu mg //$$



$$6m \Rightarrow a$$

