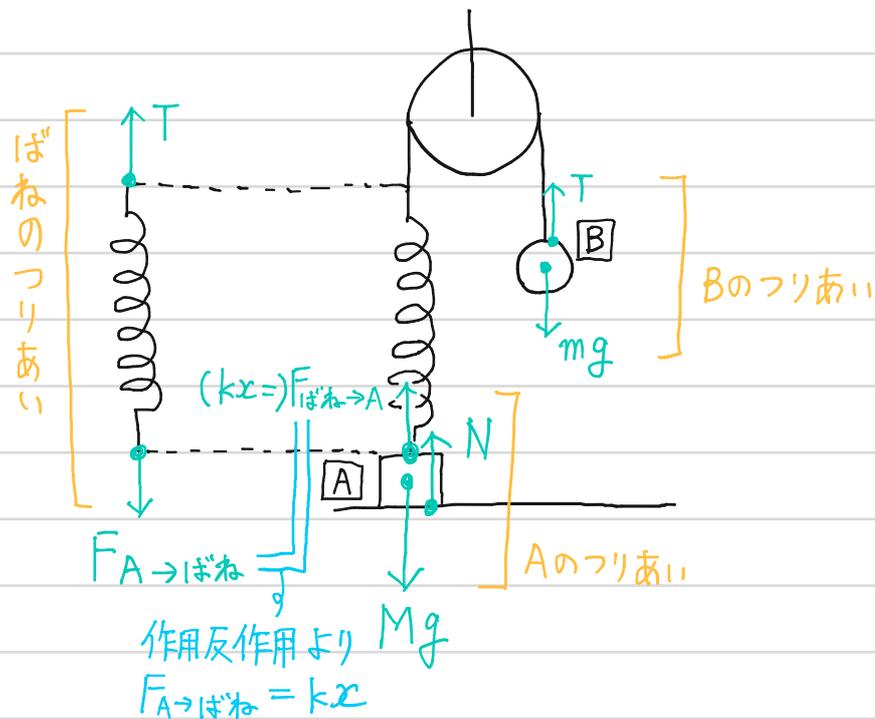


21



フリースイッチの式

$$\text{A} \quad kx + N = Mg \dots \text{①}$$

$$\text{B} \quad T = mg \dots \text{②}$$

$$\text{ばね} \quad T = F_{A \rightarrow \text{ばね}} \Rightarrow T = kx \dots \text{③}$$

(1) ②, ③より

$$mg = kx \dots \text{④} \quad \therefore x = \frac{mg}{k} \#$$

(2) ①, ④より

$$mg + N = Mg \quad \therefore N = \frac{(M-m)g}{\#}$$