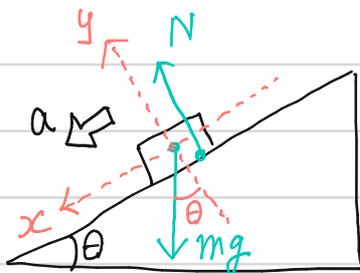


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x方向は 運動方程式

$$ma = mg \sin \theta \dots ①$$

y方向は 釣り合い

$$N = mg \cos \theta \dots ②$$

(1) a について

①より

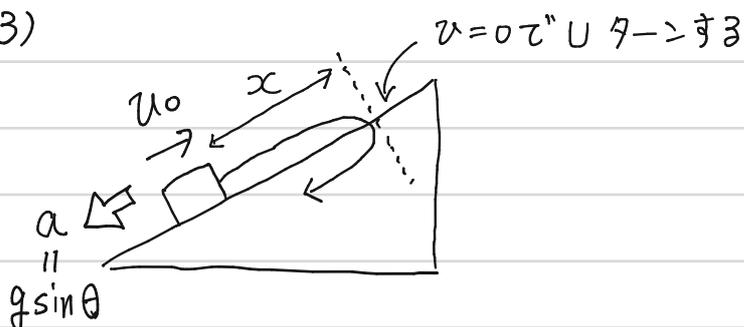
$$a = \underline{g \sin \theta} \#$$

(2) $v^2 - v_0^2 = 2ax$ より

$$v^2 - 0 = 2g \sin \theta \cdot s$$

$$\therefore v = \underline{\sqrt{2gs \sin \theta}} \#$$

(3)



$$v^2 - v_0^2 = 2ax \text{ より}$$

$$0 - v_0^2 = 2(-g \sin \theta) \cdot x$$

$$\therefore x = \underline{\frac{v_0^2}{2g \sin \theta}} \#$$