



$$\langle x \text{ 方向} \rangle \quad Ma = Mg - T \dots \textcircled{1}$$

$$\langle y \text{ 方向} \rangle \quad ma = T - mg \dots \textcircled{2}$$

① + ② して

$$Ma = Mg - T$$

$$+) \quad ma = -mg + T$$

$$(M+m)a = (M-m)g$$

$$\therefore a = \frac{M-m}{M+m} g$$