



$$-\vec{T}_x + \vec{F} = 0 \quad (x)$$

$$\vec{T}_y + \vec{mg} = 0 \quad (y)$$

$$\vec{T}_y = T \cos \theta$$

$$T_x = T \sin \theta$$

$$-T \sin \theta + \vec{F} = 0$$

$$T \cos \theta + \vec{mg} = 0$$