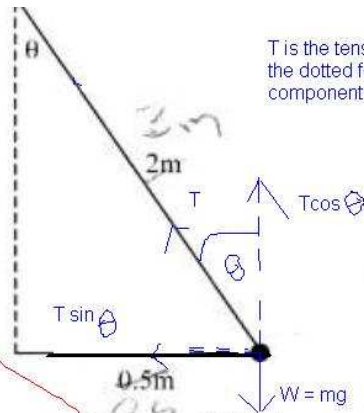


1

this must be
sin



T is the tension
the dotted forces are the
components of T

$$\theta = \tan^{-1} \frac{0.5}{2} = 14^\circ$$

$$11.30993247$$

bob does not acc up or down, hence.....

$$T \cos \theta = mg$$

$$T = \frac{mg}{\cos \theta}$$

$$T = \frac{3 \times 9.81}{\cos 14^\circ}$$

img001.jpg