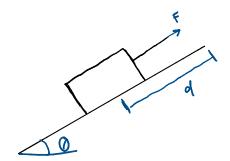
20-R-WE-DK-1 Beginner Work

Inspiration: None



You ask your little cousin to move a $1 \, kg$ box up a hill with a coefficient of kinetic friction $mu_k = 0.2$. Rather than carrying the box, he overthinks things and drags the box up the hill with a rope. Determine the work done by your little cousin and the work done by friction if he applies a constant force F = 10N and he drags the box up the hill $d = 3 \, m$ with an incline of $theta = 30 \, degrees$. How long will it take him to do so?

$$\Delta S = V_0 t + \frac{1}{2} \Omega t^2$$
 $S = 0 + \frac{1}{2} (3.3 \alpha S q) t^2$

