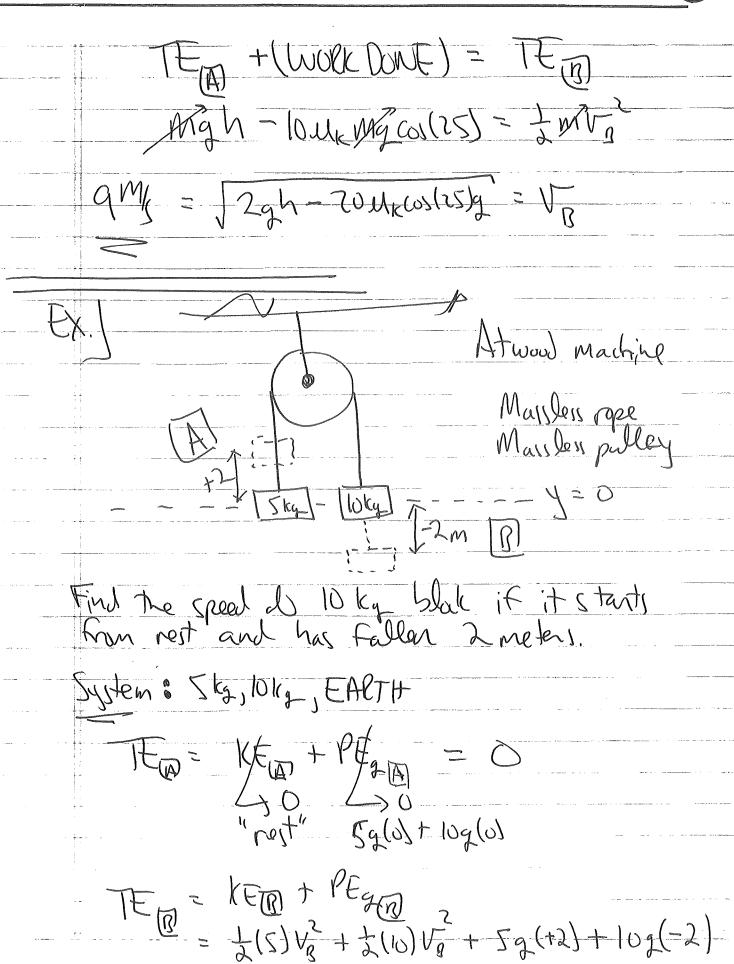


These are NOT notes. They are a <u>visual aid</u> (20%) for a <u>verbal explanation</u> (80%). (4)
Consid Energy: TEA = TED
progh = zm Vn
Vn = J2gh = 9.1Ms
Suppose there is Prition between the
box and Te ramp. Ux= 0.01
= Find speed & box @ he bottom.
Find work done by friction as box moves. 10 meters down ramp.
10 moters down ramp.
for m iv. 5 *** *** *** *** *** *** ***
Wfriction = (F.d) = (15/1/18/1 cos(180)
on box = -131 Stdist = - 10 Mkmg cos(25)
10 meters 1 significance?
Apply Energy Energy

. L

......





Conservation of Energy
TEQ = TEQ
$0 = \sqrt{2.5} + 5 - 109$
$36M_{1} = 10(9.8) = \sqrt{n}$
3 75
Back to "Hold this"
Sacl 10 Hosa 1916
"Consensative Forces and forces The
Conseniation torial and force The

Conservative Forces are forces that are associated w). Potential energies.

Mere is a connection between the vector force and the associated Scalar energy "gradient"

 $F(x,y,z,t) = -\frac{2}{0x}PE(x,y,z,t)?$ time $-\frac{2}{0x}PE(x,y,z,t)?$ $-\frac{2}{0x}PE(x,y,z,t)?$