

Hints

① $W = K_f - K_i$ "From rest" $\Rightarrow \underline{\hspace{2cm}} = 0$
 $F \cdot D = K_f - K_i$

② $W = K_f - K_i$ $F_k = 950N$ (does work) $F_A = 1140N$ (does work)
 $W_1 + W_2 = K_f - K_i$ F_g (does not do work)

③ Below water

$$W = K_f - K_i$$

two forces
do work $= 0J$

Solve for K_i

Above Water

$$W = K_f - K_i$$

only F_g
does work $= 0J$

plug in here

~~$W_{nc} = \Delta K + \Delta U$~~

~~$U_i + K_i + W_{nc} = U_f + K_f + \Delta K + \Delta U$~~

Disregard this