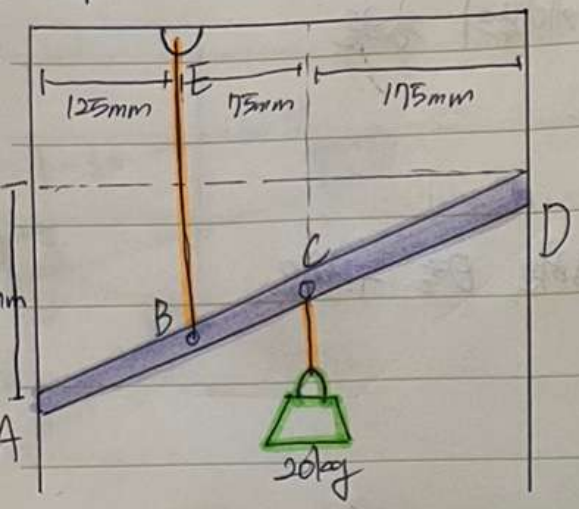
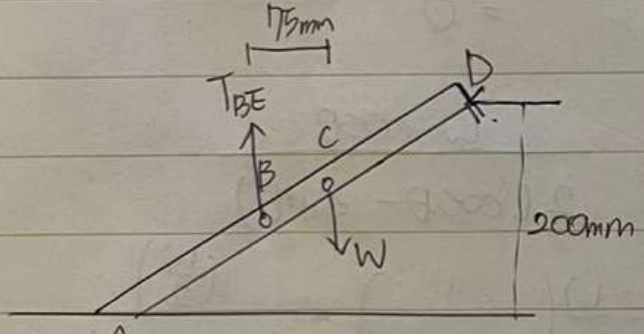
## 〈예제 4.36〉




케이블 BE의 장력

A와 D에서 작용하는 힘

$W=(20kg)(9.81\ m/s^2)=196.20N$




$\Sigma F_x=0 \ : \ A=D$

$\Sigma F_y=0 \ : \ T_{BE}=W$

$\therefore T_{BE}=196.20N$

$+\circlearrowleft \Sigma M_B=0 \ : \ A(200mm)-(196.20N)(175mm)=0$

$A=173.5175N \fallingdotseq 173.6N$

$\therefore A=D=173.6N$