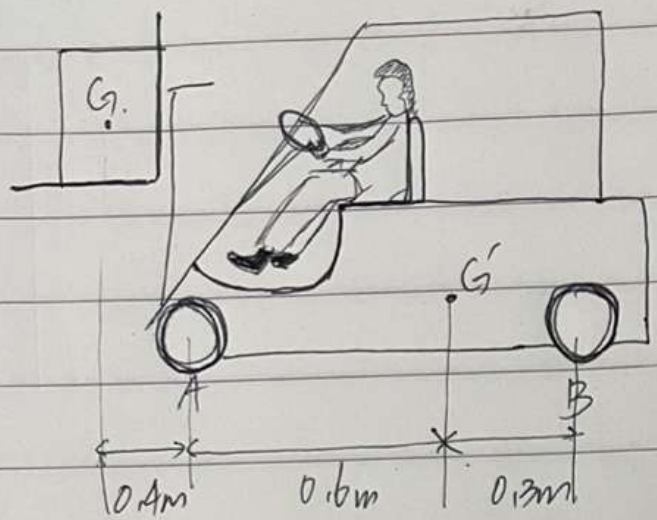
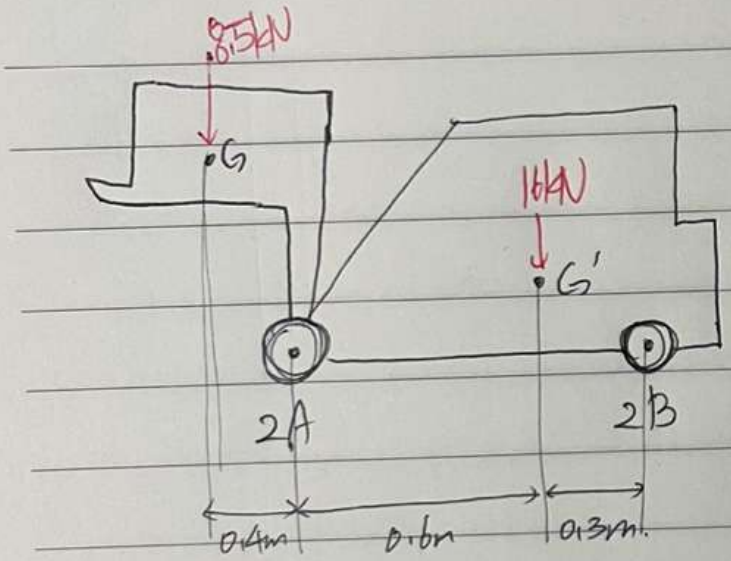
<예제 4.142>



16kN의 자동차.
8.5kN의 짐.

(a) 앞바퀴 A에 작용하는 힘.
(b) 뒷바퀴 B에 작용하는 힘.



(a) $+\circlearrowleft \sum M_B = 0$: $(8.5kN)(1.3m) + (16kN)(0.3m) - 2A(0.9m) = 0$

$A = 8.806kN$

(b) $+\uparrow \sum F_y = 0$: $-8.5kN - 16kN + 2(8.806kN) + 2B = 0$

$B = 3.444kN$

$\therefore A = 8.8kN \uparrow,\ B = 3.4kN \uparrow$