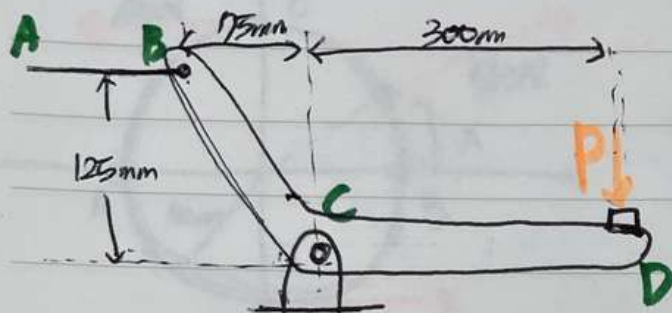


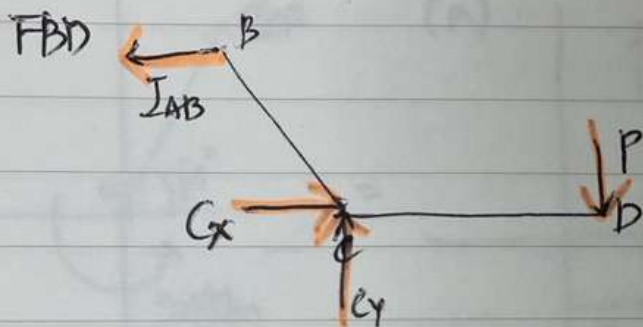
<예제 4.15>



케이블 AB에 1200N의 장(텐션)이 가해질 때

(a) P의 크기를 구하시.

(b) 이 때 C에 작용하는 케이블의 방향.

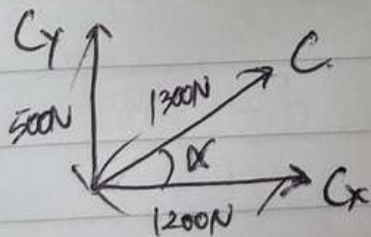


$$(a) \quad +\uparrow \sum M_C = 0 : (1200N)(0.125m) - P(0.3m) = 0$$

$$P = 500N$$

$$(b) \quad +\rightarrow \sum F_x = 0 : C_x - 1200N = 0 \quad , \quad C_x = 1200N$$

$$+\uparrow \sum F_y = 0 : C_y - P = 0 \quad , \quad C_y = P = 500N$$



$$C = \sqrt{(1200)^2 + (500)^2} = 1300N$$

$$\alpha = \cos^{-1} \left(\frac{1200N}{1300N} \right) = 22.6^\circ$$