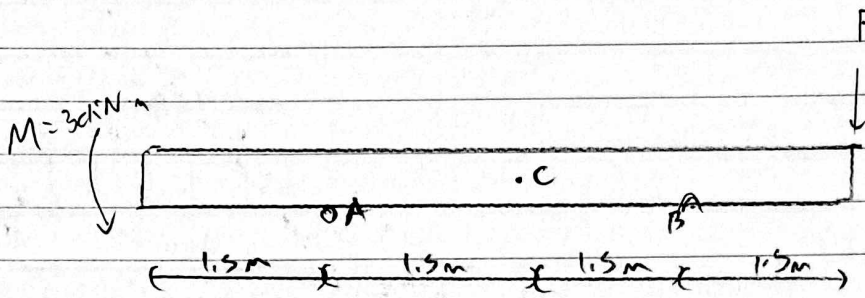
↓ ↑

D) ↑D

Solutions: 21-5-7.2-MR-04



$\Sigma M_B = 30kN + A_y(3m) - (10kN)(1.5m)$

$A_y = \frac{30kN - (10kN)(1.5m)}{3m} \Rightarrow A_y = 5\,kN$

$N_C = 0$

$\Sigma f_y = 0 = 5 - V_C \Rightarrow V_C = 5kN$

$\circlearrowleft M_C = 0 = 30\,kN + (5kN)(1.5m) + M_C$

$M_C = (5kN)(1.5m) - 30kN \Rightarrow M_C = -22.5\,kN\,m$