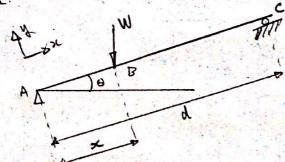


Find: reaction at A, B

Solution !

fron 0:

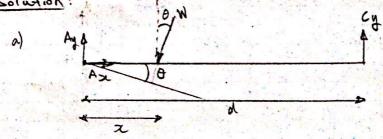
3. Given:



W = 2.45 kN d = 5 N Z = 2 M $\theta = 20^{\circ}$

Find: a) Draw FBD beam for given conditions b) Determine madions at A, C

Solution!



d= 5m 2 = 2n 0 = 20°

b) $ZF_z=0 \Rightarrow Ax-Wsine=0$ Ax=Wsine 0

ITy=0 - Ay-Wcost+Cy=0 @

IMA=0 - - W (coso) + cyd = 0 3

from 0, Az = 837.9 KN

from (3), Cy = W(2000). d Cy = 1042.9KN (9)

(9) into (0), Ay = Wcost-Cy Ay = 1259.4 EN

in the given coordinate system,

reaction at A: 837.90 + 1259.45 KN reaction at C: 1042.95 KN