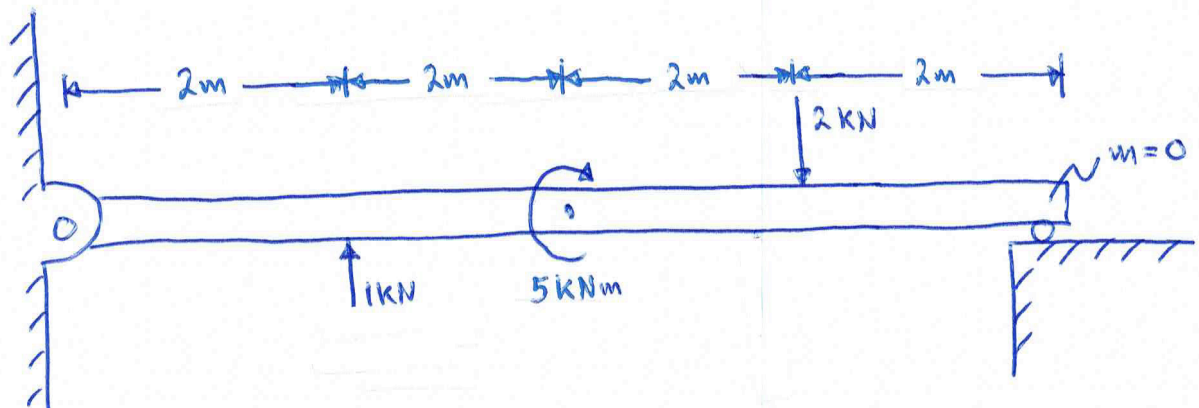
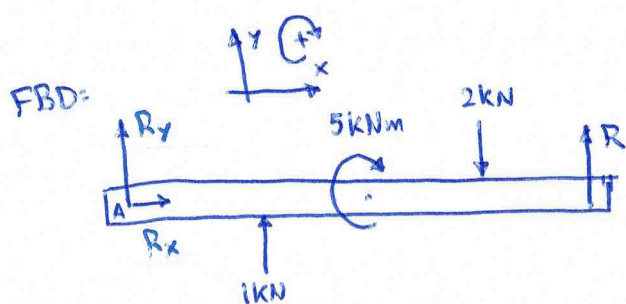
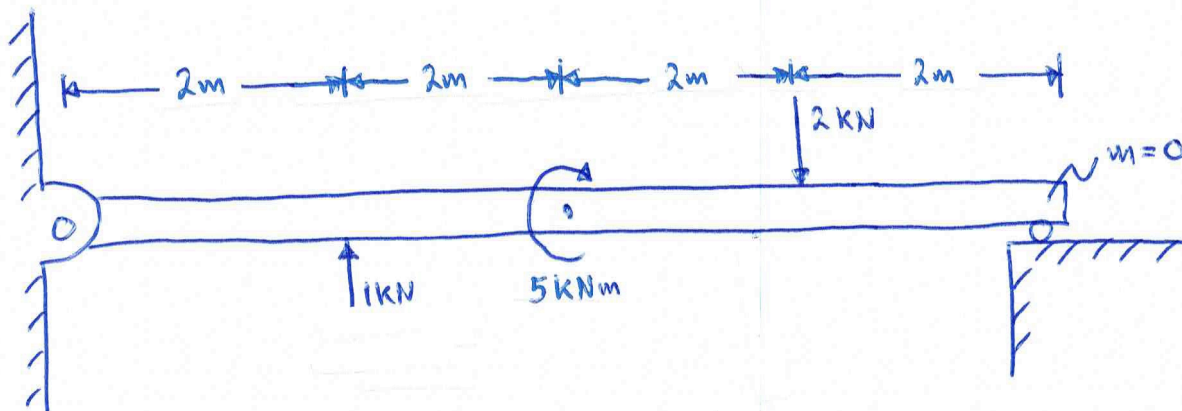


Draw the shear and bending moment diagrams for



Determine the shear, axial and bending moment equations for



Newton's Laws:

$$\sum F_x = \cancel{w_x} = R_x$$

$$\sum F_y = \cancel{w_y} = R_y + 1000 - 2000 + R$$

$$\sum M = \cancel{I_A} = -(2)(1000) + 5000 + (6)(2000) - (8)(R)$$

solve (1) for R_x :

$$R_x = 0$$

solve (3) for R :

$$R = \frac{1}{8}(15000) = 1875 \text{ N}$$

solve (2) for R_y :

$$R_y = 1000 - R$$

sub (3n) into above:

$$R_y = 1000 - [1875] = -875 \text{ N}$$

Draw the shear and bending moment diagrams for

