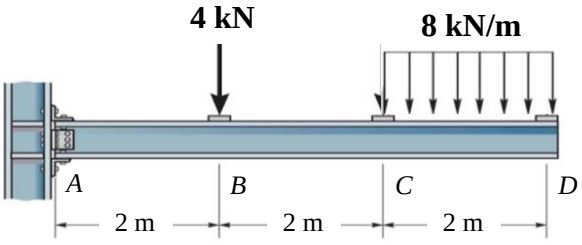
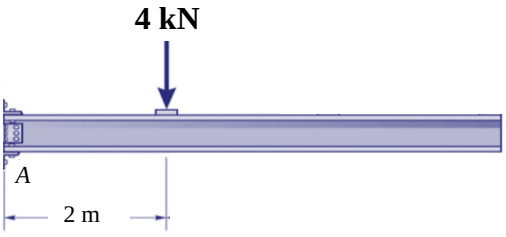
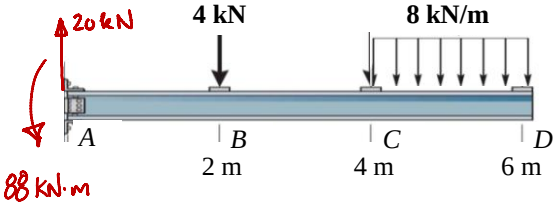
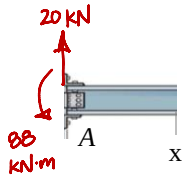
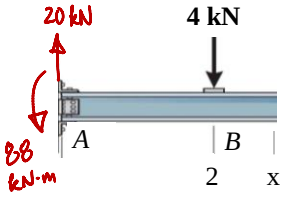


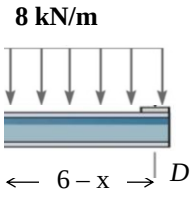
Ex. Draw the shear and bending moment diagrams.

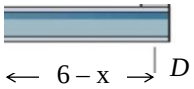


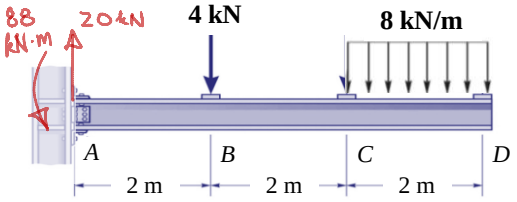




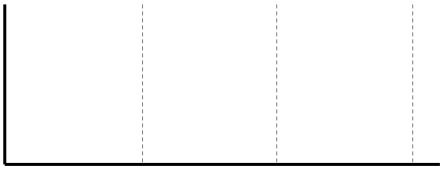




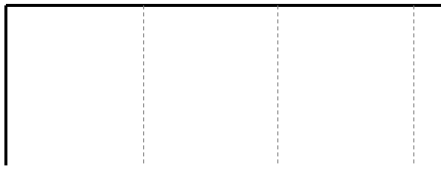




V (kN)



M (kN-m)



Shear and Moment Diagrams

$0 < x < 2m \quad V = 20\,kN$

$2 < x < 4m \quad V = 16\,kN$

$4 < x < 6m \quad V = 48 - 8x$

$0 < x < 2m \quad M = -88 + 20x$

$M_{x=2} = -48\,kN\cdot m$

$2 < x < 4m \quad M = -80 + 16x$

$M_{x=4} = -16\,kN\cdot m$

$4 < x < 6m \quad M = -4(6-x)^2$

$M_{x=6} = 0$