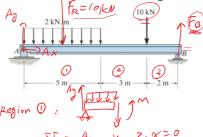




Draw the shear and moment diagrams for the beam.

 $= - \chi^2 + 9.5 \chi$

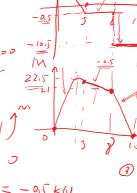


Efy = Ay + Fs - 10 - 6 = 0

Fa = 8+2.5 = 10.3 kN Ay = 20 - FB = 8.8 kN

Ify = Aj - V-10 = 0

EM = M - V.X - 10.25 =0

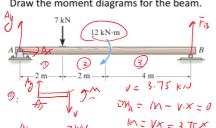


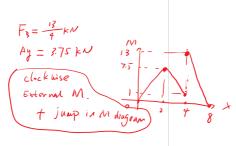
V = Ay-20= -10.5 ku 6 ZM=M-10.2.5-10.8-VX=0

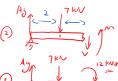
M= 105 -10,5 X

Example

Draw the moment diagrams for the beam.







$$\frac{3}{2} = \frac{1}{2} = \frac{1}$$



$$M = 7 - V = 0$$
 $V = -3.25 \text{ FW}$
 $M = 7.2 - V \cdot x - 12 = 0$
 $M = -3.25 \times + 2.6$

