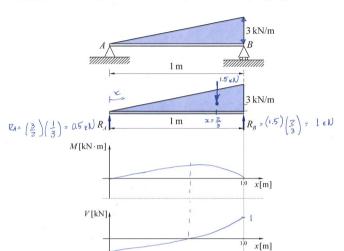
- 1/2

 $\underline{Example~2.5}-Plot~the~bending~moment~and~shear~force~diagrams~for~the~following~simply-supported~beam:$



$$n_{(x)} = 0$$
 $n_{(x)} + (x)(3x)(x)$

$$\overline{Z} N_{x}^{col} = 0 : N_{(x)} + \left[\frac{(x)(3x)}{2} \right] \left(\frac{x}{3} \right) - \left(\frac{1}{2} \right) x = 0$$

$$M(x) = -\frac{3}{2}x^{2} \cdot \left(\frac{x}{3}\right) + \frac{x}{2}$$

$$M(x) = -\frac{x^{3}}{2} + \frac{x}{3}$$

$$M(x) = -\frac{z^3}{2} + \frac{x}{2}$$

$$\Sigma F_y = 0$$
 area ?

$$\Sigma F_y = 0$$
 area Δ

$$V(x) = \begin{pmatrix} 3 & 2 \\ 1 & 4 \end{pmatrix} + \frac{1}{2}$$

$$V(x) = \begin{pmatrix} 3 & z \\ 7 & z \end{pmatrix} +$$

$$V(x) - \left(\frac{3}{2}x^2\right) + \frac{1}{2} = 0$$

 $\sqrt{(x)} = \frac{3}{2}x^2 - \frac{1}{2}$

$$+\left[\frac{(x)(3x)}{2}\right]\left(\frac{x}{3}\right)$$