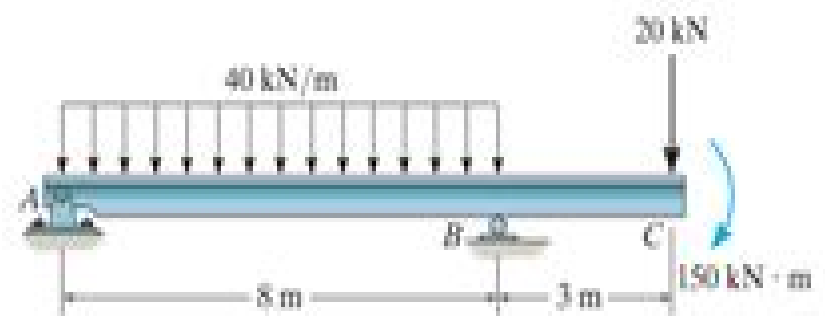


Draw the shear and moment diagrams for the beam.



SOLUTION

$$0 \leq x < 8$$

$$+\uparrow \Sigma F_y = 0; \quad 133.75 - 40x - V = 0$$

$$V = 133.75 - 40x$$

$$+\circlearrowleft \Sigma M = 0; \quad M + 40x\left(\frac{x}{2}\right) - 133.75x = 0$$

$$M = 133.75x - 20x^2$$

$$8 < x \leq 11$$

$$+\uparrow \Sigma F_y = 0; \quad V - 20 = 0$$

$$V = 20$$

$$+\circlearrowleft \Sigma M = 0; \quad M + 20(11 - x) + 150 = 0$$

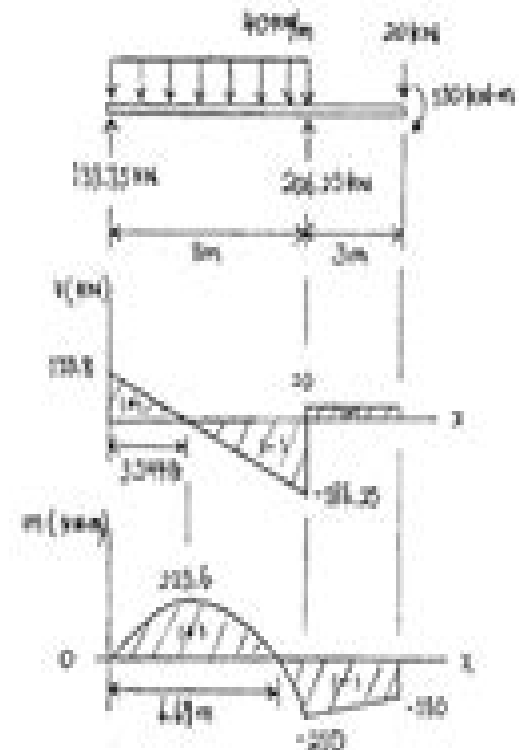
$$M = 20x - 370$$

Ans.

Ans.

Ans.

Ans.



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