

7-42. Draw the shear and moment diagrams for the beam (a) in terms of the parameters shown; (b) set $P = 600$ lb, $a = 5$ ft, $b = 7$ ft.

(a) For $0 \leq x < a$

$$+\uparrow \Sigma F_y = 0; \quad \frac{Pb}{a+b} - V = 0$$

$$V = \frac{Pb}{a+b} \quad \text{Ans}$$

$$(+\Sigma M = 0; \quad M - \frac{Pb}{a+b}x = 0$$

$$M = \frac{Pb}{a+b}x \quad \text{Ans}$$

For $a < x \leq (a+b)$

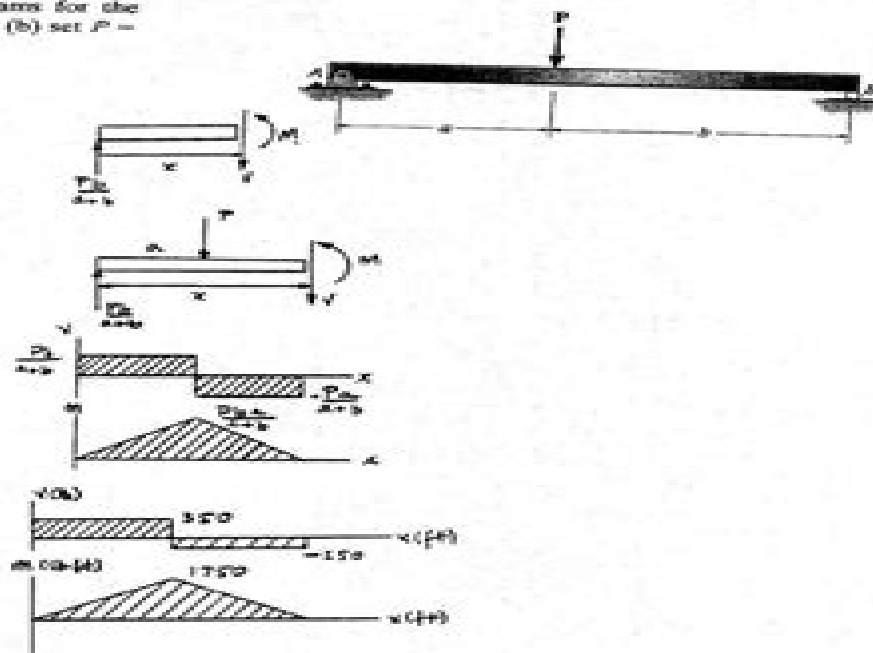
$$+\uparrow \Sigma F_y = 0; \quad \frac{Pb}{a+b} - P - V = 0$$

$$V = -\frac{Pa}{a+b} \quad \text{Ans}$$

$$(+\Sigma M = 0; \quad -\frac{Pb}{a+b}x + P(x-a) + M = 0$$

$$M = Pa - \frac{Pa}{a+b}x \quad \text{Ans}$$

(b) For $P = 600$ lb, $a = 5$ ft, $b = 7$ ft



7-43. Draw the shear and moment diagrams for the cantilevered beam.



For $0 \leq x < 5$ ft:

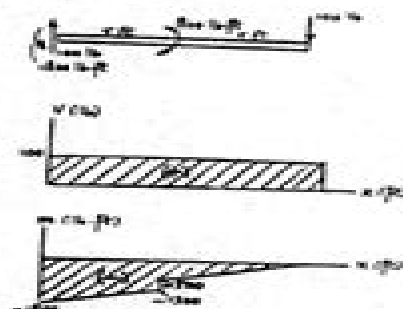
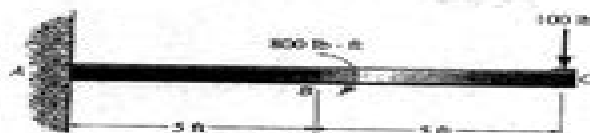
$$+\uparrow \Sigma F_y = 0; \quad 100 - V = 0; \quad V = 100 \quad \text{Ans}$$

$$(+\Sigma M = 0; \quad M - 100x + 1800 = 0; \quad M = 100x - 1800 \quad \text{Ans}$$

For $5 < x \leq 10$ ft:

$$+\uparrow \Sigma F_y = 0; \quad 100 - V = 0; \quad V = 100 \quad \text{Ans}$$

$$(+\Sigma M = 0; \quad M - 100x + 2000 = 0; \quad M = 100x - 2000 \quad \text{Ans}$$



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Zaremba**



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