

### Problem 439

A beam supported on three reactions as shown in Fig. P-439 consists of two segments joined by frictionless hinge at which the bending moment is zero.

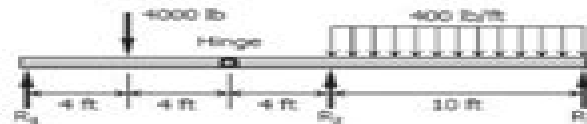
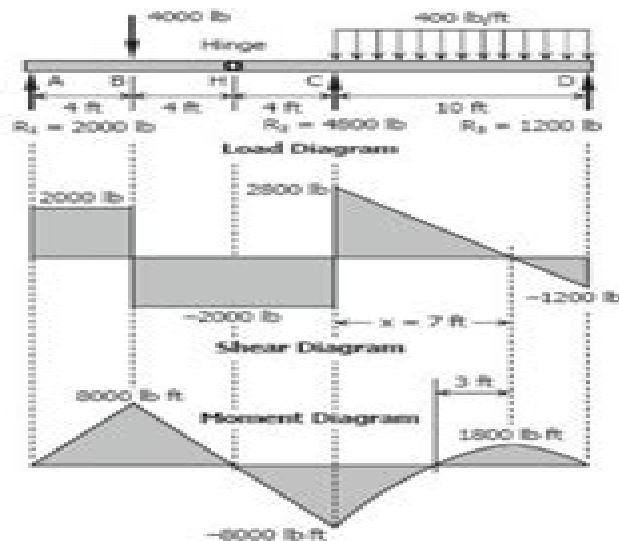


Figure P-439

### Solution 439



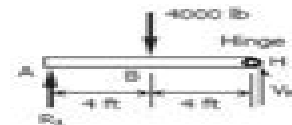
#### To draw the Shear Diagram

- (1)  $V_A = 0$
- (2)  $V_B = 2000$  lb  
 $V_{B+} = 2000 - 4000 = -2000$  lb
- (3)  $V_C = -2000$  lb  
 $V_{C+} = -2000 + 4800 = 2800$  lb
- (4)  $V_D = 2800 - 400(10) = -1200$  lb

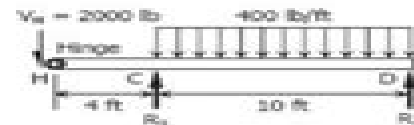
- (5) Location of zero shear:  
 $x / 2800 = (10 - x) / 1200$   
 $1200x = 28000 - 2800x$   
 $x = 7$  ft

#### To draw the Moment Diagram

- (1)  $M_A = 0$
- (2)  $M_B = 2000(4) = 8000$  lb-ft



$$\begin{aligned} \Sigma M_H = 0 & \quad \Sigma M_A = 0 \\ 8R_1 = 4000(4) & \quad 8V_H = 4000(4) \\ R_1 = 2000 \text{ lb} & \quad V_H = 2000 \text{ lb} \end{aligned}$$



$$\begin{aligned} \Sigma M_D = 0 \\ 10R_2 = 2000(14) + 400(10)(5) \\ R_2 = 4800 \text{ lb} \end{aligned}$$

$$\begin{aligned} \Sigma M_H = 0 \\ 14R_3 + 4(4800) = 400(10)(9) \\ R_3 = 1200 \text{ lb} \end{aligned}$$

- (3)  $M_C = 8000 - 4000(2) = 0$
- (4)  $M_D = -400(2)$   
 $M_D = -800$  lb-ft
- (5)  $M_H = -800 + \frac{1}{2}(2800)(7)$   
 $M_H = 1800$  lb-ft
- (6)  $M_D = 1800 - \frac{1}{2}(1200)(3)$   
 $M_D = 0$
- (7) Zero M is 4 ft from  $R_3$

# Strength Of Material By Singer 3 Edition

**Andrew Pytel, Ferdinand Leon Singer**



### **Strength Of Material By Singer 3 Edition:**

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