

PROBLEMS-Chapter 1

1. The lower ends of the two hangers in Fig. 1-41 were at the same elevation before the loads were applied. The horizontal member is of uniform cross section. Find the value of length l if the horizontal member (assumed to be rigid) is horizontal after all loads are acting.
Ans. $l = 38.3$ in.



Figure 1-41 Problem 1.

Solution: To solve this problem we will need to draw a free body diagram as shown below:



The moment at the left rod:

$$48F_s = 1,500 \times 28.5 + 800 \times 6 + 1,000 \times 30 + 900 \times 54$$

$$F_s = \frac{126,150}{48} = 2,628 \text{ lbf}$$

The moment at the right rod:

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IM Harris



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