#### Solution Manual for Design of Machine Elements 8th Edition by Spotts

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#### PROBLEMS-Chapter 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 I if the horizontal member (assumed to be rigid) is horizontal after all loads are acting.
 Ans. I = 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:

$$48F_x = 1,500x28.5 + 800x6 + 1,000x30 + 900x54$$

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

The moment at the right rod:

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