

**Homework Problem 4.C**

**Given:** The bar AB has a weight of  $W$  with the center of mass of the bar being half-way along its length.

**Find:**

- Determine the reaction at B and express it as a vector.
- Determine the reactions at A and express as a vector.

Use the following parameters in your work:  $W = 500$  lb,  $F = 250$  lb,  $M = 300$  lb-ft,  $d = 4$  ft,  $b = 8$  ft and  $\theta = 36.87^\circ$ .

