

Homework Problem 11.B

Given: The pole is loaded as shown and is restrained by a ball and socket at O, two cables (CB and CA) and a force F . The tension in cable CA is T_{CA} .

Find:

- Determine the tension in cable CB and the Force F .
- Determine the reactions at O and express as a vector.

Use the following parameters in your work: $T_{CA} = 260$ lb, $L = 6$ ft, $d = h = 4$ ft and $b = 5$ ft.

