Homework Problem H8.B

Given: The plate AB has a weight of W. Force F is applied to maintain equilibrium.

Find:

- a) Determine the magnitude of F and express it as a vector.
- b) Determine the reactions at A and B and express them as vectors.

Use the following parameters in your work: W = 500 lb, d = 5 ft, b = 3 ft and $\theta = 30^{\circ}$.

