## 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: $W=500 \mathrm{lb}$, $d=5 \mathrm{ft}, b=3 \mathrm{ft}$ and $\theta=30^{\circ}$.


