

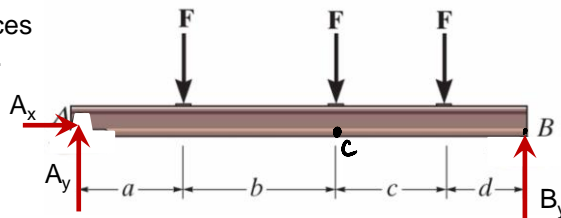
## STEPS FOR SOLVING 2-D EQUILIBRIUM PROBLEMS



### FBD Example 1 in 2D

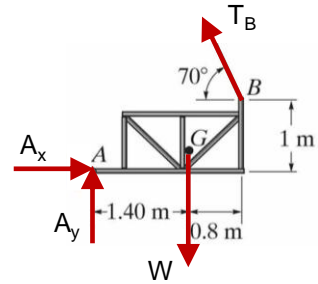
Determine the reaction forces at A and B if each F is 5kN.

- a = 2m
- b = 3m
- c = 2m
- d = 1m



## FBD Example 2 in 2D

Determine the reaction forces at A and the tension in the cable, if the weight of the basket is 3kN.



## FBD Example 3 in 2D

What is the applied force  $F$  on the pedal that causes the spring to stretch by 1.5 in, and creates a force of 20 lb in link B?

