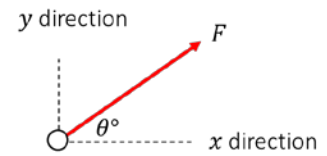




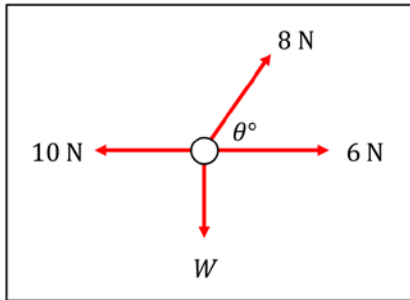
RESOLVING 2D FORCES | KEY POINTS

- If θ is the angle between the force (F) and the direction you want to resolve in, use $\cos \theta$, otherwise use $\sin \theta$.
- In the diagram:
 - x -direction: $F \cos \theta$.
 - y -direction: $F \sin \theta$.

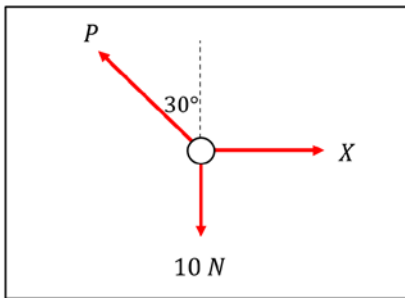


FORCES IN EQUILIBRIUM | EXAMPLE-PROBLEM PAIR 1

Four forces are in equilibrium.
Calculate the values of W and θ .

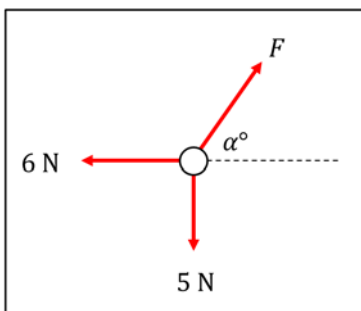


Three forces are in equilibrium.
Calculate the values of P and X .



FORCES IN EQUILIBRIUM | EXAMPLE-PROBLEM PAIR 2

Three forces, which act in the same plane are in equilibrium.
Calculate the values of F and α .



Three forces, which act in the same plane are in equilibrium.
Calculate the values of F and α .

