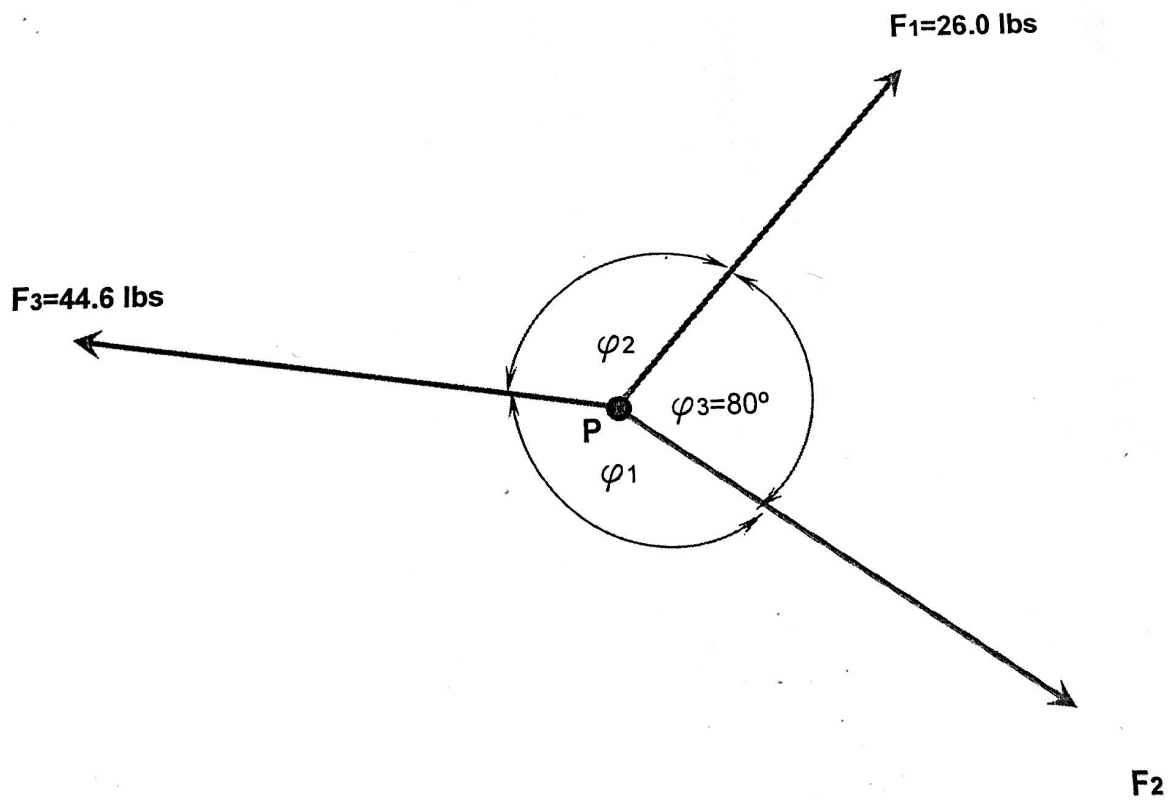


- 1 Particle P in the figure below is in equilibrium. Calculate the magnitude of F_2 as well as angles φ_1 and φ_2 .



- 2 The beam in the figure below is in equilibrium and loaded as shown. Calculate the magnitude of F_A and F_D . Show all calculations.

