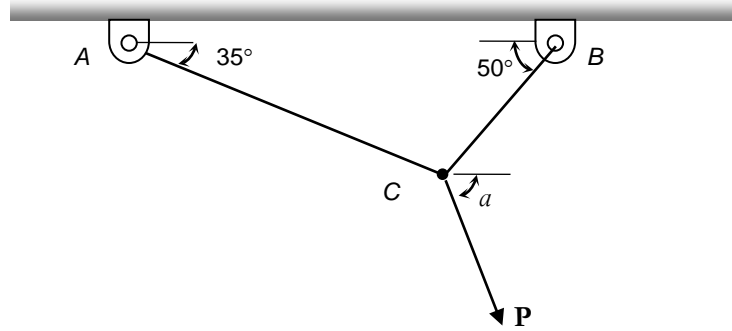

Example

Two cables are tied together as shown. If the largest allowable tension in either cable is 800 N,

- (a) what is the largest force P that can be applied at C ?
- (b) What is the corresponding angle α ?



Example

A gorilla of mass 160 kg is suspended from a light, inextensible cable making use of two massless, frictionless pulleys as shown in the figure. Find the magnitude of the force **P** that must be applied to keep the gorilla stationary as well as the angle α .

