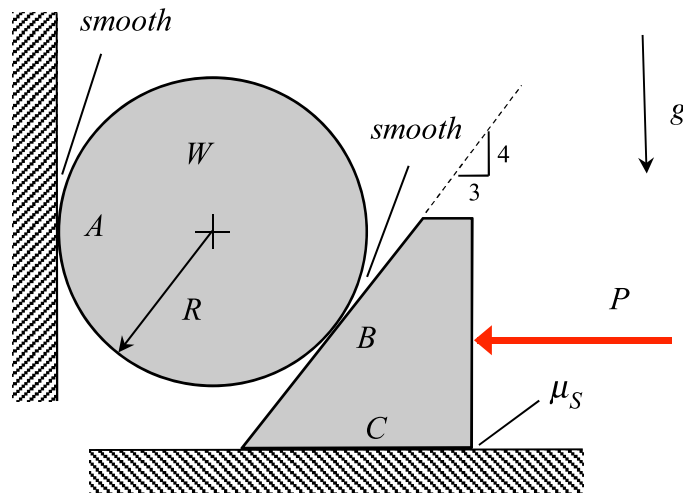


Homework Problem H20.A

Given: A wedge is used to support a disk having a weight of W . The weight of the wedge is negligible compared to the weight of the disk.

Find: Determine the *minimum* value of the wedge force P in order to hold the disk in place. On which surface, A or B, does the disk slip at this minimum wedge force?

Express your answers in terms of W . Use the following: $\mu_s = 0.3$.



Homework Problem H20.B

Given: The quarter-circle block A is supported by wedge B.

Find: Determine the *minimum* force P on the wedge that is required to lift the block. Write your answer in terms of W .

Use the following: $\mu_s = 0.2$ and $\theta = 20^\circ$.

