

Homework Problem H6.A

Given: A force P acts on the perimeter of a circular disk.

Find: For this problem:

- Determine the moment arm of P about the center of the disk, O . Express your answer in terms of the disk radius R .
- Using the moment arm found in a), determine the moment of that P exerts on the disk about point O . Express your answer as a vector in terms of P and R .
- Using a vector cross product, determine the moment that P exerts on the disk about point O . Compare your answer with what you found in Part b).

