

Name:

**Exam 3 - version B**

1. (30 pts) Find the state of stress at  $B$  if the diameter is  $d = 40$  mm.

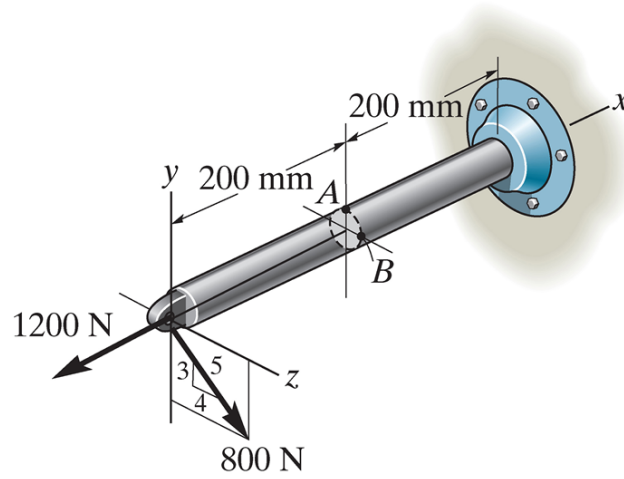


Figure 1: Problem 1

2. (30 pts) Find the principal stresses at  $C$  as indicated on the figure.

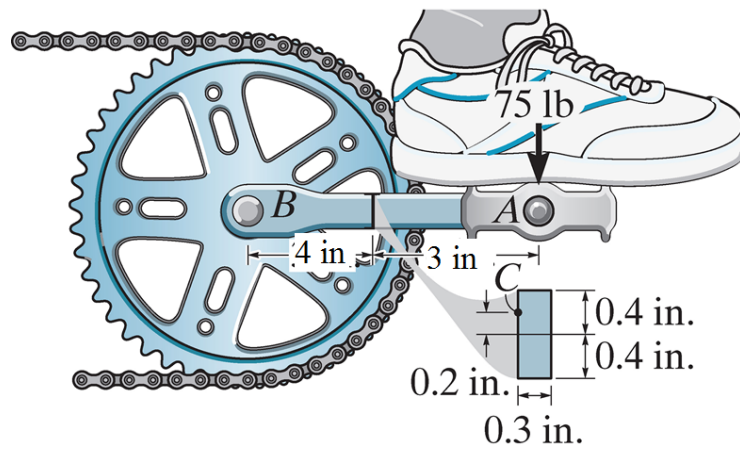


Figure 2: Problem 2

3. (40 pts)

- (a) Find the reaction force at  $B$ .
- (b) Describe how to find the point of maximum deflection.

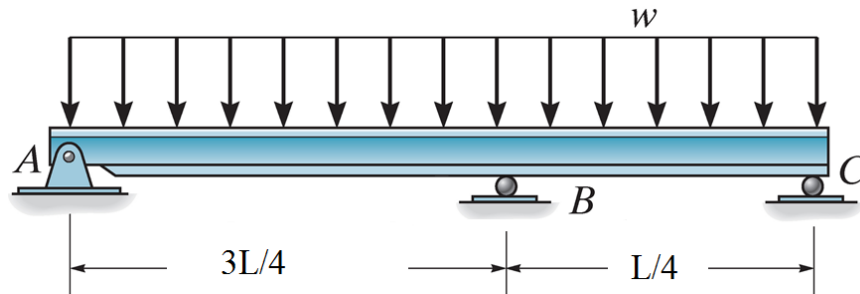


Figure 3: Problem 3

