**Christopher King**

**2018141521058**

**Applied Fluid Mechanics**

**Class Section 01**

**04/25/2021**

# **Problem 11.1**

Find out the flow area , wetted perimeter and hydraulic radius for the open open-channel flow in a circular conduit for .



**Solution:**

Wetted perimeter:

Flow area:

Flow area:

# **Problem 11.7**

Diagram

Description automatically generated

**Solution:**

# **Problem 11.19**

Text

Description automatically generated

**Solution:**

Therefore,

Therefore, the local change in flow depth caused by the bump is equal to