

Design of Open Channels – Dr. Abdul-Sahib T. Al-Madhhachi

HW Assignment #5

Assigned: November 5, 2019

Due: November 12, 2019

- 7-1. Show that the most efficient rectangular or triangular section is one-half of a square.
- 7-3. Determine the best hydraulic section of the channel in Example 7-2 if the section is (a) rectangular, (b) triangular, (c) circular, (d) parabolic, and (e) in the form of a hydraulic catenary.
- 7-5. Design a nonerodible channel carrying 200 cfs with  $n = 0.020$  and  $S = 0.0020$ . Use your own judgment and assumptions.