Exercise no. 4

Rating curve

On the basis of the values of water stages and the corresponding discharges, calculate the rating curve characterizing the H-Q relationship.

- 1. Log (Q), Log(H)
- 2. Point graph of the pairs [Log(H); Log(Q)]
- 3. In the graph, show the trend (regression) line and its equation
- 4. From the equation, read the value of a and b
- 5. Apply logarithm on the equation $Q = c \cdot H^a$
- 6. $b = \log c => c = 10^{b}$
- 7. Create the equation of the rating curve putting the values of a and c
- 8. For water stages ranging from 0,01 m to 0,75 m calculate the corresponding discharges
- 9. Draw the rating curve in a graph (from the calculated pairs [Q, H]
- 10. The final graph together with the rating curve's equation = result.