RIVER MORPHOLOGY

Problem 1: The 10 year average rainfall (P_{ave}) and runoff coefficient (α) of 182 km^2 area of river basin are given as 560 mm and 0.36, respectively. The elevation of water divide of the basin is 1800 m and the elevation of outlet of the basin is 1200 m. Determine annual water yield and average height of the basin.

Problem 2: The diversion weir will be constructed over a river with 830 m of bottom elevation. The total length of the river is 120 km through the spring and elevation of the spring is 940 m. Find the slope of the river.