(F) To show matrix multiplication is associative, ie, (A.B). C = A.(B.C) AERPX2, BEIR2XT, CERTXE NOW A-B=S (SERPXT) S.t. Sij = & Aik. By = (A.B). C = S. S = X (X + R!xt) S.t. X ij = \(\frac{1}{2} \) \(\frac{1} \) \(\frac{1}{2} \) \(\frac{1}{2} \) \(\fr = E Z Aik Bkg. Cli Also B.C = T (TER2xt) s.t Tij = E Bix. Ckj · A-(B.C) = A-T = Y (Y + RPxt) sit. Yij = ZAil Z BLK CKj I SE AIL-BIK. CKI : Xij = Yij : (A.B).c = A (B.C) = Matrix multiplication is Associative

