AZ-Proofs-Q1

Show that meatbx) = a+b x mex) · We Know that m(x) = Vn & xi · so m (a+bx) = 1/n & (ma+bx) · Vn Za + YN Zbx · a + b · C 1/N \(\Sigma x \) = a + b · m(x) 2. COV(X, A+bly) = km b. LOV(X, V) · WE Know that (OUCX, VI= VN & LX: -MCX)(Y-1 OV(x, a + BY) - IN & (xi-mcx) (atbyi) - ml · We Know that mlatby 1= atboncy) from # · SO TO ELXI-MUXI (byi-bMCV) · and INSCRIMEN BCy. MCy) · Mush ;2 px con(x,4)

By.

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