Q.) Insurance company has two agents. Monthly claims data of both is Mean 7 3600 7 normally distributed & independent claims (Msom)
In 11.5.10 of observations; claims of 2nd agent 2 1st agent (Sum) What is mean monthly claims of 1st Agend? Sum of two 1 normal distributions is also normal with Msom = M, +M2 () 50m = 51 + 52 Consider Merence between 14 agent observations (0,) & 2nd agent observations (02) This difference will also be normal with. Mail = M, - M2 (not '=') Given that in 11.5.10 observations; Dz LD, 0° 00 01-02 70 for 11.50/0 i.e P(0,-0270) = 0.115 at 2-value = 1.2 occurs

0,-02 2-60-(M1-M2) =1.2 M2-M, =(1.2) (Talibb) 2-Score=1.2 Mail = Ma-M2 M2-M, 2(1.2) (5um) M2-M1= 1.2 ×600 M2-M1 = 720 M2 + M1 = 3600 M2 -M, = 720 2M1 = 2880 1 M1=1440 21