Assignment 14 U2010038

(1) A = Scencler 10 Cbs $\overline{V}_{H} = 58,93$ |A| = 14 $S_{H} = 9,45$ Versus $|B| \Rightarrow uuder$ 20 Cbs $|B| \Rightarrow var = 14$ var = 14 var = 14

If X-E(X)=) XC = FA - XB Sc2= SH2 + SB degree of freedom = 13 $\hat{V}_c = 58,93 - 51,93 = 7,5$ $\hat{V}_c = \sqrt{5n^2 + 5n^2} = \sqrt{4,95^2 + 7,612} \approx 8,82$ le =) le =0 NA =) le +0 t= VIV', (715-0) = 3,18 p=) 2.P(X > 3,18) -) =) 2 (1-p(x = 3/18)) => =)2(1-0,996)=)2.0,004=) =) 10,008. p-val = 901 > No can be rejected. (A) n=48 m=10 $X_A=432/7$ $X_B=403/5$ $S_A=20/39$ $S_B=15/62$ lo=) MA - MB =0 Versus Hp: MA - MB =0 $V = \left(\frac{20_1 39^2}{48} + \frac{15_162^2}{10}\right)^2 = (6_1 13 =) 16 \text{ as }$ $\left(\begin{array}{c} 20(394) \\ \hline 48^2.47 \end{array}\right)$ $t = \frac{1}{\sqrt{20139^2 + 15/62^2}} + \frac{15/62^2}{\sqrt{20139^2 + 15/62^2}} = \frac{93217 - 90315}{\sqrt{1111}} = \frac{5}{10}$ p-val = P(x = 5,08) = 0,99 "1" P-val > 0,1 => Ko can be accepted =

83) engine 1-A M=22 $\sqrt{2}A=12,27$ $S_A=0,3$ $S_B=0,4$ engine 2-B M=22 $\sqrt{2}B=12,76$ $S_B=0,4$ (8) = 8,2 / Sp = 21.0,382+21.0,472 = 0,1827 Sp=01/35 Mo: RIA - RB = 0 Versus HA => RA - RB +0 $t = (12, 27 - 17, 76 - 0)\sqrt{11}$ 0, 135=) -12104. p-val =) 2.P(x = 1-12,04) =) 2.P(x212,04) =) 2(1-p(x412,04)) =0 p-val =0 =) llo can be rejected.