- c. Following the regression in part (b), we carry out the  $NR^2$  test using the right-hand-side variables in (XR8.6b) as candidates related to the heteroskedasticity. The value of this statistic is 59.03. What do we conclude about heteroskedasticity, at the 5% level? Does this provide evidence about the issue discussed in part (b), whether the error variation is different for married and unmarried individuals? Explain.
- d. Following the regression in part (b) we carry out the White test for heteroskedasticity. The value of the test statistic is 78.82. What are the degrees of freedom of the test statistic? What is the 5% critical value for the test? What do you conclude?

C. Since we have EDUC, EXPER, METRO	d.
	The White test uses: Z= EDUC
and FEMALE four variables, the	$Z_3 = EXPFR$
degree of freedom = 5-1.	Z4= Metro
	Z <sub>5</sub> =female
Thus, the test statistic $NR^2 \sim \chi_4^2$ ,	Z6=EDUC <sup>2</sup>
and with $N=0.05$ $V^2$ $A=9.48$	$Z_h = EXPER^2$
and with $\alpha = 0.05$ , $\chi^2_{0.95}$ , $4 = 9.48$	Z8=EDUCXEXPER
Sinæ 59.03 > 9.48 , we reject	Za=EDUC×Metro
the null hypothesis.	≥10=EDUC×Temale
777.55	Z <sub>II</sub> =ExPER×Metro
ThereSole, they related to the heterostellasticity.	Z12= Experxienale
It provide evidence about the issue discussed	X13=MetroXfemale
St Browne evident mount inc 125 a sixuage	⇒ S=13, so we have 12 degree of steedom
in part (b), that is, the error variation is	
h	The critical value (10,95,12) = 21.026
not the same for all observation based	
	To sum up, since the test statistic is 18.82,
on the heteroskedasticity.	
	which is greater than 21.026, we
	reject Ho.