HOMEWORK ASSIGNMENT 4	Assigned: October 20, 2005
	Due: October 27, 2005
	10 Points – 1 point each day late

Complete the following questions from your textbook. The problems come from the "Patient satisfaction" example. Hospital administrators are examining the relationship between patient satisfaction (Y, the first variable) and patient age (X1), severity of illness (X2) and anxiety level (X3). The data is in dataset "http://www.stat.lsu.edu/EXSTWeb/statlab/datasets/nknwdata/CH06PR15.txt".

1) 7.5	Both parts (a & b)
2) 7.6	Just the test P-value and conclusions
3) 7.9	Just the full and reduced models, P-value for the and conclusions
3) 7.14 modified	 Fit r²_{Y,X1}, r²_{Y,X1 X2} and r²_{Y,X1 X2} X3. Comment on the how the r² value changes as additional variables enter the model. Fit r²_{Y,X2}, r²_{Y,X2 X1} and r²_{Y,X2 X1} X3. Are the results similar?
4)	Obtain and interpret the standardized regression coefficients.
5)	Obtain and interpret the Variance Inflation Factors (VIF)