## Economics 312 Daily Problem #16

. regress lwage educ exper expersq

The following regression results from a regression of the log of wage on years of education, years of potential experience, and the square of potential experience using data from the 1991 Current Population Survey.

Model   Residual		3 3,282	61.7935461 .219442036	Number of obs F(3, 3282) Prob > F R-squared	= = =	281.59 0.0000 0.2047
-	905.589401		.275674095	Adj R-squared Root MSE	=	0.2010
	Coef.			• •	nf.	Interval]
educ   exper   expersq   _cons	.0989959 .0197854	.0035216 .0032841 .000077 .0587319	28.11 0 6.02 0 -4.51 0	.000 .09209 .000 .013346 .000000498 .000 .535259	3	.1059007 .0262246 0001963 .7655692

1. Interpret the signs of the coefficients on experience and its square. Sketch roughly the shape of the estimated relationship between log-wage and experience for a given level of education. Is this what you would expect?

2. Calculate the marginal effect of an additional year of experience for someone with exper = 10 and for someone with exper = 20. Do these results conform to the shape of your relationship in question 1?

3. The effects of experience for question 2 do not depend on the level of education. Should they? How could you change the model to incorporate this?