Multimedia 1

Interval for the mean response is Yx. + + 4, of X (xo (x Tx 5 x 0) +2

I'm is easy to calculate yxo. This Evrns Right. This is just plugging the numbers into the regression equation itself.

Use Linv function in Excel with inputs 0.05 and 26 to get to 25, 26 = 2.96.

Good to know the excel function. I looked the value up

on a t-table and got the same answer.

Nows we give you V(xoT&Tx5'xo+2 to be 1.34

This 'hot mess' was given to us. It is just the standard error of the sample; which is closely Follows related to the standard deviation, right? If I recall correctly the difference between the two is negligible as long as the sample size exceeds 30 observations.

44.60± 2.06 x 1-34 2 you do the

44.60 +- 2.76 Got it! Thanks.

The prediction in Letval is given by Yxo エ 上点, df x V アンコー デュー XoT(XTX) Xo Thank you for this step. I got my algebra confused. Oy! The texts show the preceding iteration SQRT (sigma^2 *(1+ x) ± 2.46 etc)). So I assume that the standard error should be squared in the equation shown. $40.66 + 2.06 * SQRT (2.31^2 + 1.34^2)$

40.66 +- 2.06 * SQRT (7.14) and from eastier slides 40.66 +- 2.06 * 2.67 1= (2.31) 3 rmse3

40.66 +- 2.06 * 2.67

40.66 +- 5.50

for simply substitute The number and solve.