Math151 at the University of Tennessee, Knoxville - Chat for August 31, 2015 with the course instructor, Louis Gross.

I will be online starting at 7:30PM and will be happy to answer questions regarding any aspect of the course, assignments, etc. You can type in this document to ask questions - note that you need to be logged into your UTK Google Drive account to be able to type in this.

When you ask a question, please do not use your name because this document will be saved and publicly posted after we close it. I will be on-line at least until 8:30PM but will stay on longer if there are still questions.

I am online now.

Lou

I have a question about HW 3.4d;

X bar=2.78

Y bar=3.92

 $Sxx=(5.8-2.8)^2+(1.5-2.8)^2+(2.3-2.8)^2+(1-2.8)^2+(3.3-2.8)^2=15.18$ 

Sxy = (5.8-2.8)(8.6-3.92) + (1.5-2.8)(3.9-3.92) + (2.3-2.8)(3.1-3.92) + (1-2.8)(1-3.92) + (3.3-2.8)(5-3.92) = 22.87

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M hat=22.872/15.18=1.51

3.92=((1.51)(2.78))+b

B=-.27

Y hat=1.51(x hat)-.27

The answer in the book is...

Y hat=1.585(x hat)+0.487

Could you enlighten me?

Give a couple minutes to check this.

Lou

First, the book answer is Y hat=1.585(x hat)-.487 which is correct. For Sxx I get 14.43 since I am using the xbar as 2.78 - you have used 2.8 and it makes a little difference. I also get 22.87 for the Sxy as you did. So m hat is 22.87/14.43 = 1.58 as in the text. So b = -.485 as in the text. so the reason you got -.27 for b is simply because you used 2.8 rather than 2.78 in the calculations. It isn't too far off, but it is sufficiently far off to make a difference.

Lou

I am going off-line. Have great evening.

Lou