1. A sample for a simple linear regression produced

$$n = 8, \ \bar{x} = 1.375, \ \bar{y} = 3.125, \ Sxx = 19.875, \ Syy = 18.875, \ Sxy = 10.625.$$

   For each required computation below, keep 3 digits after decimal point for final results.

   (1) Complete ANOVA table

Source	SS	DF	MS	F	p
Model	_____	___	_____	_____	_____
Error	_____	___	_____		
C. Total	_____	___			

   (2) Is the model useful? Support your conclusion by a test for the significance of regression.

2. A researcher has an incomplete ANOVA table for a simple linear regression

Source	SS	DF	MS	F
Model	_____	___	57.857	_____
Error	_____	7	_____	
U. Total	97	___		

   For required computations keep 3 digits after decimal point for final results.

   (1) Complete the ANOVA table

   (2) Is the researcher's model useful with the data? Support your conclusion by a test at the level 0.05 using rejection region.