1. Complete the ANOVA table using the given results. Show all your work below the table.

Source of variation	Sum of squares	Degrees of freedom	Mean squares
Regression	29.23	l	29.23
Residual	3.5	2	1.75
Total	32.73	3	

2. Compute the F statistic using the ANOVA table. Is there something special about this statistic?

$$F^* = \frac{MSReg}{MSRes} = \frac{29.25}{1.75} = 16.70$$

$$t^2 = 4.087^2 \approx 16.70$$

Thus, we can see that $F^*=t^2$ and it only holds for simple linear regression.