Below is an excerpt from linear regression output produced by a statistical program called S+:

Coefficients:

Residual standard error: 5.634 on 16 degrees of freedom Multiple R-Squared: 0.1811

F-statistic: 3.538 on 1 and 16 degrees of freedom, the p-value is ??

- (1) Give the equation for the least-squares regression line of y on cig.
- (2) What is the p-value for the test of $H_0: \beta_0 = 0$ against a 2-sided alternative?
- (3) What percent of the variation of the y values is accounted for by the regression of y on cig?
- (4) Give a 95% confidence interval for the slope β_1 .
- (5) Fill in the question marks in the output above with the correct values.