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

Coefficients:

|     | Value   | Std. Error | t value | Pr(>|t|) |
|-----|---------|------------|---------|----------|
| (Intercept) | 20.3279 | 4.2840     | 4.7451  | 0.0002   |
| cig     | -1.7088 | 0.9085     | ??      | 0.0783   |

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 \( \beta_1 \).

(5) Fill in the question marks in the output above with the correct values.