EPPS 6313 : Recitation Session #6

Problem 1

 ${\cal H}_0$: Dog ownership and heart attack survival are independent. Test it.

	survived over 1 year?			
		Yes	No	Total
Owned	Yes	50	3	53
a Dog?	No	28	11	39
	Total	78	14	92

EPPS 6316 : Recitation Session #6

Problem 1

Considering the following model

 $Y_{i} = \alpha + \beta_{1}x_{1} + \beta_{2}x_{2} + \beta_{3}x_{3} + \beta_{4}x_{4} + u_{i}$

The result from ab OLS regression is as follows ;

$$\begin{split} Y_i &= 0.034 + 0.164 x_1 - 0.265 x_2 + 0.765 x_3 + 1.116 x_4 + u_i \\ & (0.054) \ (0.066) \ \ (0.111) \quad \ (0.337) \quad \ (0.421) \end{split}$$

Numbers in the parentheses are standard errors for coefficients. RSS = 0.1658, $R^2 = 0.425,\, {\rm N} = \, 64$

(1) Test the hypothesis $\beta_1 = 0$

(2) Test the hypothesis that all coefficients are equal to zero.

(3) The restricted model has two restrictions ; $\beta_1 = \beta_4 + 1$, $\beta_3 = -3\beta_2$. The RSS from the restriction model is 0.1889. Test the validity of the restrictions.