

TD2 Exercise 6 et Exercise 7

Ex6.

1.

$Performance = \beta_0 + \beta_1 * Taille$

Coefficient

$\beta_0 = 1.7312459 \quad \beta_1 = 0.342808$

(Intercept)	Taille
1.7312459	0.342808

2.

Source de variation	Degrés de liberté	Somme des carrés	Moyenne des carrés	F_c
Régression	1	0.012823	0.0128225	12.711
Résiduelle	18	0.018158	0.0010088	
Totale	19	0.0300981		

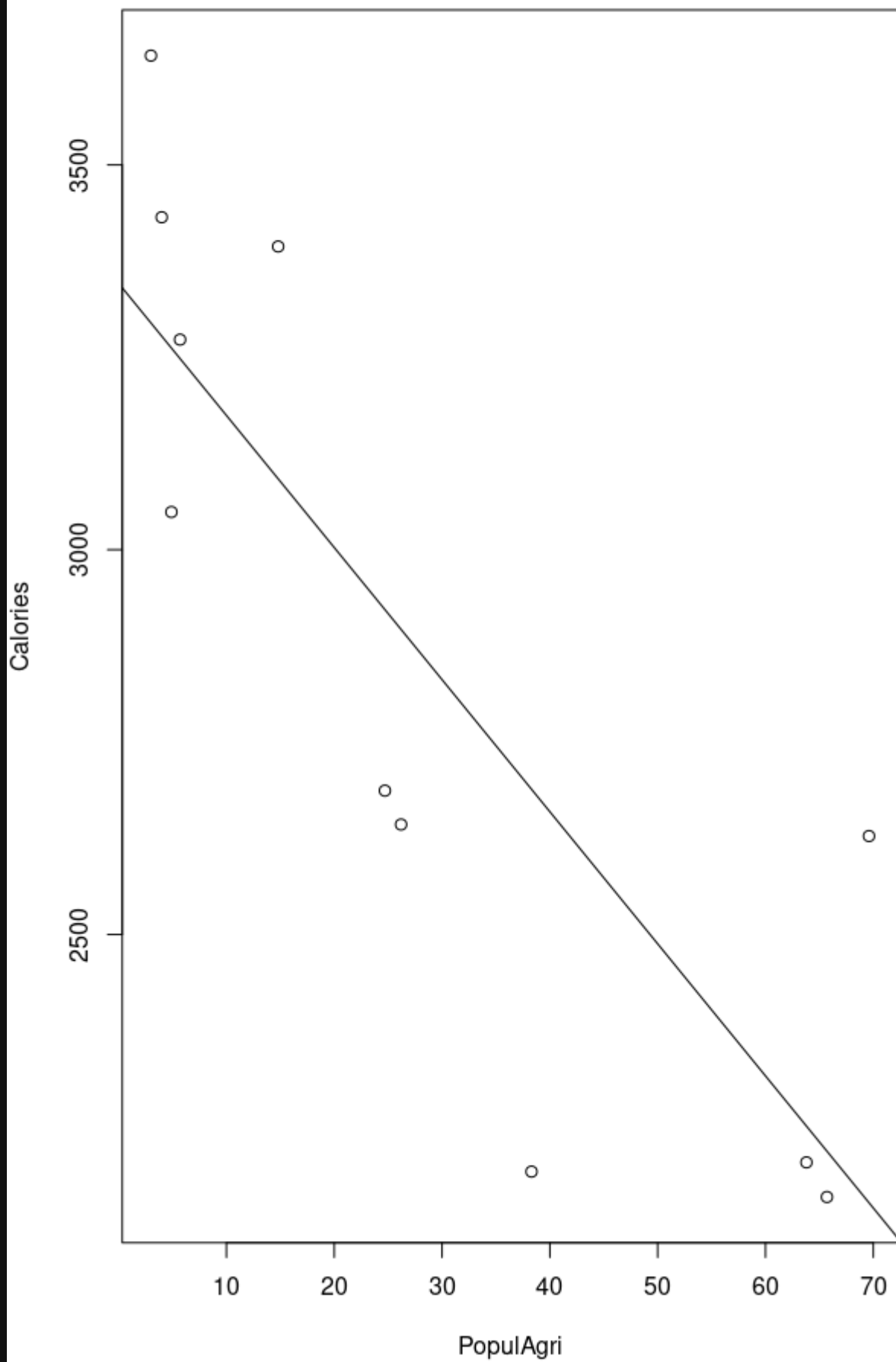
Analysis of Variance Table					
Response: Performance					
	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Taille	1	0.012823	0.0128225	12.711	0.002212
Residuals	18	0.018158	0.0010088		
Taille	**				
Residuals					

3.

$\alpha = 0.95$

Ex7.

1.



2.

$$\text{Calories} = \beta_0 + \beta_1 * \text{PopulAgri}$$

Coefficient

$$\beta_0 = 3346.122 \quad \beta_1 = -17.164$$

(Intercept)	PopulAgri
3346.12221	-17.16353

3.

Tableau d'analyse de variance correspondant.

Source de variation	Degrés de liberté	Somme des carrés	Moyenne des carrés	F_c
Régression	1	2045960	2045960	20.907
Résiduelle	8	880756	97862	
Totale	9	10853523		

Analysis of Variance Table

Response: Calories

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
PopulAgri	1	2045960	2045960	20.907	0.001342 **
Residuals	9	880756	97862		

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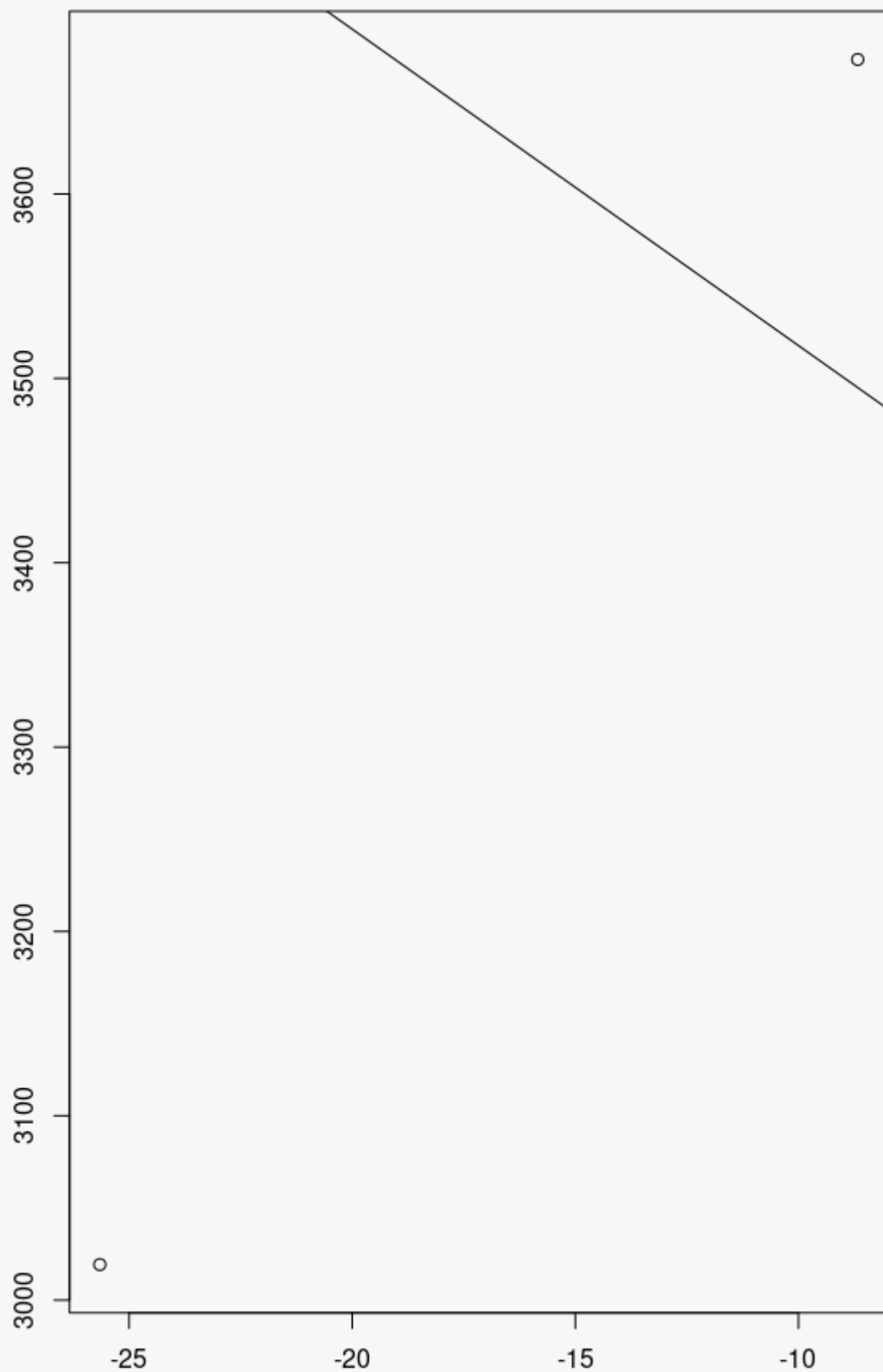
4.

Un intervalle de confiance à 95% est:

	2.5 %	97.5 %
(Intercept)	3019.29457	3672.949860
PopulAgri	-25.65509	-8.671975

5.

c(3019.29457, 3672.94986)



c(-25.65509, -8.671975)