

## GROUP 3

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### Ex3

1/  $p = 3$

$$MC_{res} = \frac{SC_{res}}{n-p} \Leftrightarrow 19.6 = 176.4 / (n-3) \Rightarrow n = 12$$

$$SC_{res} = SC_{tot} - SC_{reg} = 1680,8 - 1504,4 = 176,4$$

Source de variation	Somme de carrés	Ddl	Carrés moyens	Fobs
Régression	1504,4	$p - 1 = 2$	$\frac{SC_{reg}}{p-1} = \frac{1504,4}{2} = 752,2$	$\frac{MC_{reg}}{MC_{res}} = \frac{752,2}{19,6} = 38.37755$
Résiduelle	176,4	$n - p = 9$	$\frac{SC_{res}}{n-p} = \frac{176,4}{9} = 19.6$	
Totale	1680,8	$n - 1 = 11$		

2/

On a la valeur critique:  $F_{(\alpha, r, n-p)} = F_{(0.05, 2, 9)} = 4.26$  (utiliser le tableau Fisher)

$F_{obs} = 38.37755 > 4.26 \Rightarrow$  Alors on rejete  $H_0$  au seuil de signification  $\alpha = 0,05$

$$3/ R^2 = \frac{SC_{reg}}{SC_{tot}} = \frac{1504.4}{1680.8} = 0.89505$$

$$4/ s^2 = \frac{SC_{res}}{n-p} = \frac{176.4}{12-3} = 19.6$$