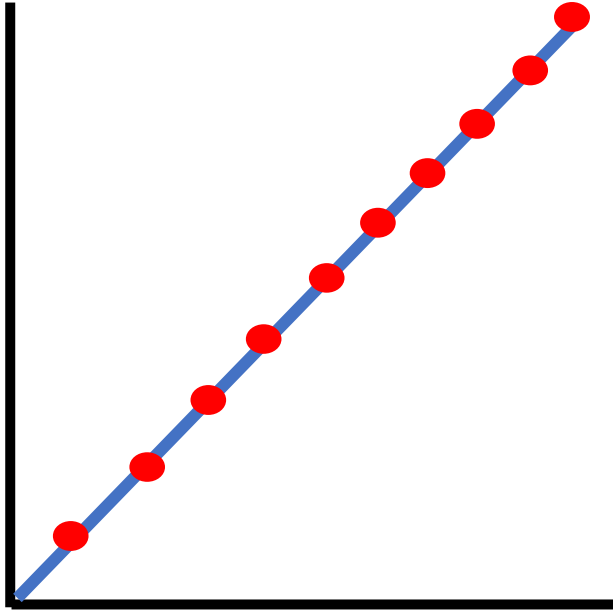
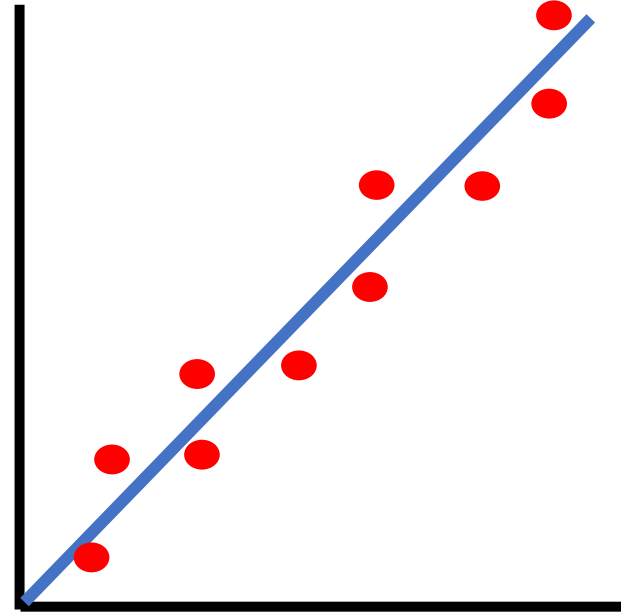


TEMA 3. MODELOS LINEALES

MODELO LINEAL

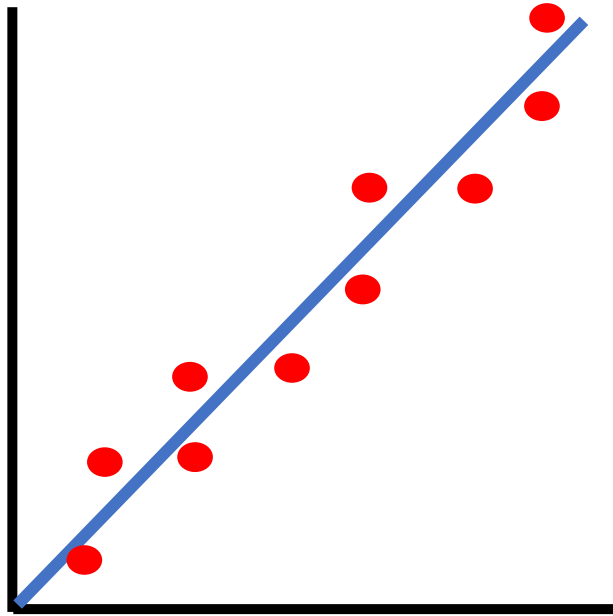


$$y = mx + b$$



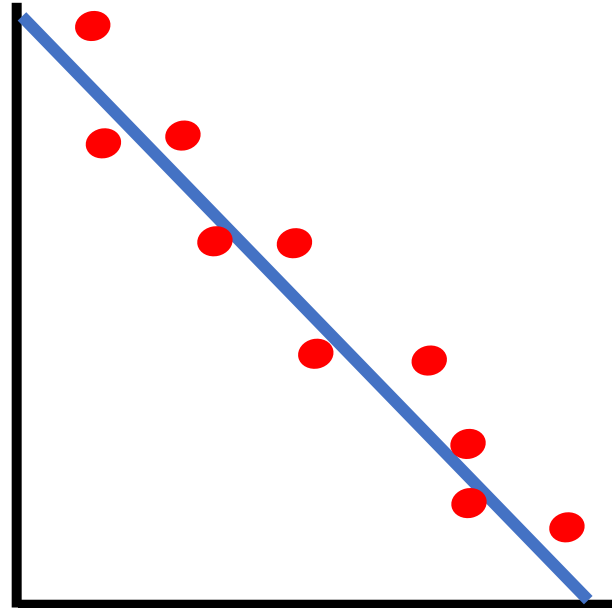
$$y = B_0 x + B_1 + \epsilon$$

MODELO LINEAL



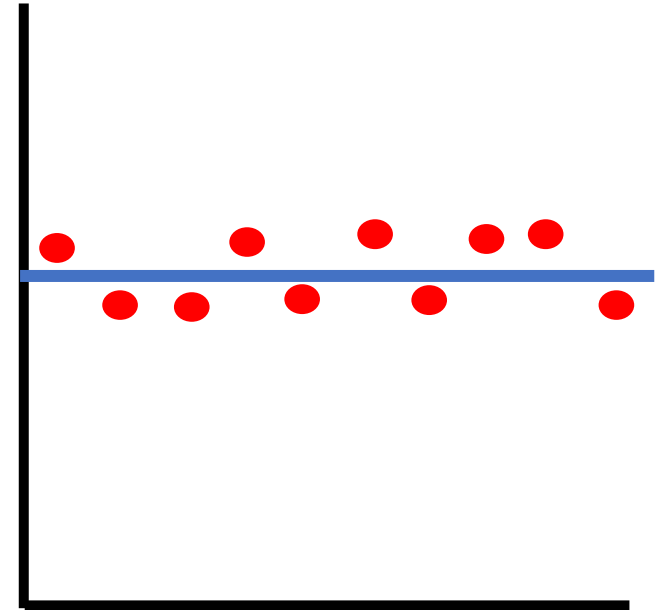
POSITIVA

$$r = 1$$



NEGATIVA

$$r = -1$$



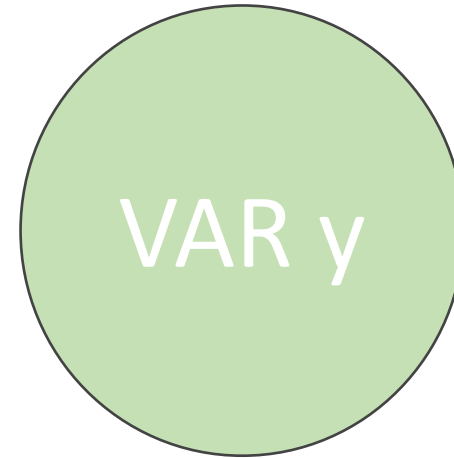
CONSTANTE

$$r = 0$$

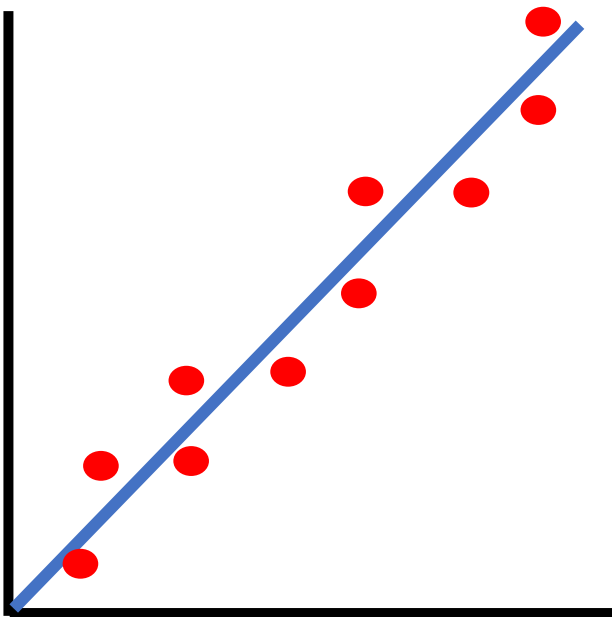
REGRESIÓN MÚLTIPLE



~



CORRELACIÓN DE PEARSON



$$r = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sqrt{\sum (x_i - \bar{x})^2 \sum (y_i - \bar{y})^2}}$$

CORRELACIÓN DE KENDALL

X	Y					
1	3					
2	1	-				
3	4	+	+			
4	2	-	+	-		
5	6	+	+	+	+	
6	5	+	+	+	+	-

Datos pequeños

Prueba de hipótesis

$t = 0$; sin correlación

$T \neq 0$; correlación

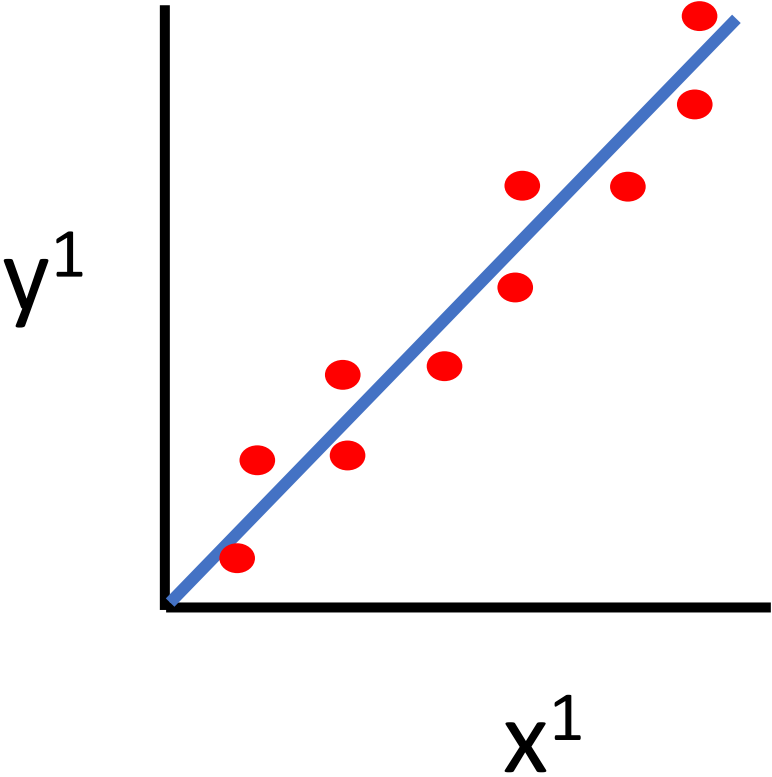
$$t = \frac{C - D}{C + D} \quad t = \frac{11 - 4}{11 + 4}$$

$$t = \frac{7}{15} = 0.46$$

CORRELACIÓN DE SPEARMAN

X	Y
1	3
2	1
3	4
4	2
5	6
6	5

X	x^1	Y	y^1
1	1	3	3
2	2	1	1
3	3	4	4
4	4	2	2
5	5	6	6
6	6	5	5



REGRESIÓN LOGÍSTICA

