C2-10	مع م					
	yi	N;	y; - y	$x_i - \overline{x}$	(y;-y)(x;-x)	(y; -y)2
	7	0	3	-2-5	-7.5	9
	5	1	1	-1.5	-1.5	
	5	2_	1	-0.5	-0.5	
	4	3	O	0-5	0	0
	2	4	-2	1-5	- 3 · 0	4
	1	5	-3	2.5	7 - 5	9
SUM	24	15			- 20	24

$$\hat{\beta} = \frac{\omega v(x,y)}{var(y)} = -\frac{4.5}{4.5} = -\frac{5}{6}$$

$$\hat{x} = \bar{x} - \hat{\beta}\bar{y} = 2.5 + 5.4 = \frac{2}{3}$$

$$x_i = \hat{\alpha} - \hat{\beta} y_i = \frac{25}{6} + \frac{5}{6} y_i$$

Clearly, this is not the same line as

y:= 48 - 8 2: Since the product of their

7 7

Slopes is not 1.

This is an imaginary number since it is the Square root of a negative number.