

Semana #3

X	Y	X-7	Y-7	(X- $\bar{X}$)(Y- $\bar{y}$)	(X-7)	(X- $\bar{y}$) ²
10	2	-30	-3	90	900	9
20	3	-20	-2	40	400	4
30	4	-10	-1	10	100	1
40	5	0	0	0	0	0
50	6	10	1	10	100	1
60	7	20	2	40	400	4
70	8	30	3	90	900	9
280	35			280	2,800	28

$$X) \bar{X} = 7 \div 280 = 40 \quad 5x = \sqrt{2800}$$

$$y) \bar{y} = 35 \div 7 = 5 \quad 5y =$$

$$5x = \sqrt{2800} = \sqrt{2800} = \sqrt{4.66.66} = 27.66$$

$$5y = \sqrt{\frac{28}{7}} = \sqrt{\frac{28}{7}} = \sqrt{4.66} = 2.15$$

$$R = \frac{\sqrt{280}}{(7-1)(21.60)(2.15)} = \frac{280}{278.64} = \sqrt{1.004} = 1.001$$

X	y	$x - \bar{x}$	$y - \bar{y}$	$(x - \bar{x})(y - \bar{y})$	$(x - \bar{x})^2$	$(y - \bar{y})^2$
10	1	-40	-3.88	155.2	1600	15.05
20	8	-30	3.12	-93.6	900	9.73
30	3	-20	-1.88	37.6	400	3.53
40	6	-10	1.12	-11.2	100	1.25
50	9	0	4.12	0	0	16.9
60	1	10	-3.88	-38.8	100	15.05
70	5	20	0.22	4.4	400	0.04
80	9	30	4.12	123.6	900	16.97
40	2	40	-2.88	-115.2	1600	8.29
450	44			140.08	6000	86.81

$$\bar{X} = 450 \div 9 = 50$$

$$\bar{y} = 44 \div 9 = 4.88$$

$$S_x = \sqrt{6000} = \sqrt{6000} = \sqrt{750} = 27$$

$$S_y = \sqrt{\frac{86.81}{9-1}} = \sqrt{\frac{86.81}{8}} = \sqrt{10.85} = 3.29$$

$$R = \sqrt{140.08}$$

$$(9-1)(27.38)(3.29) =$$

$$R = \sqrt{140.08}$$

$$(9-1)(27.38)(3.29) = \sqrt{140.08} = \sqrt{0.19} = 0.43$$