

X	Y	U=X-60	V=Y-7	U^2	V^2	UV
42	5.2	-18	-1.8	324	3.24	32.4
50	7.5	-10	0.5	100	0.25	-5
56	5.9	-4	-1.1	16	1.21	4.4
64	8.5	4	1.5	16	2.25	6
73	8.5	13	1.5	169	2.25	19.5
76	7.8	16	0.8	256	0.64	12.8
80	8.4	20	1.4	400	1.96	28
		21	2.8	1281	11.8	98.1
		3	0.4	183	1.6857143	14.014286

$Cov(X,Y) = E(UV) - E(U)E(V) = 12.81$

$V(X) = E(U^2) - E(U)^2 = 174.00$

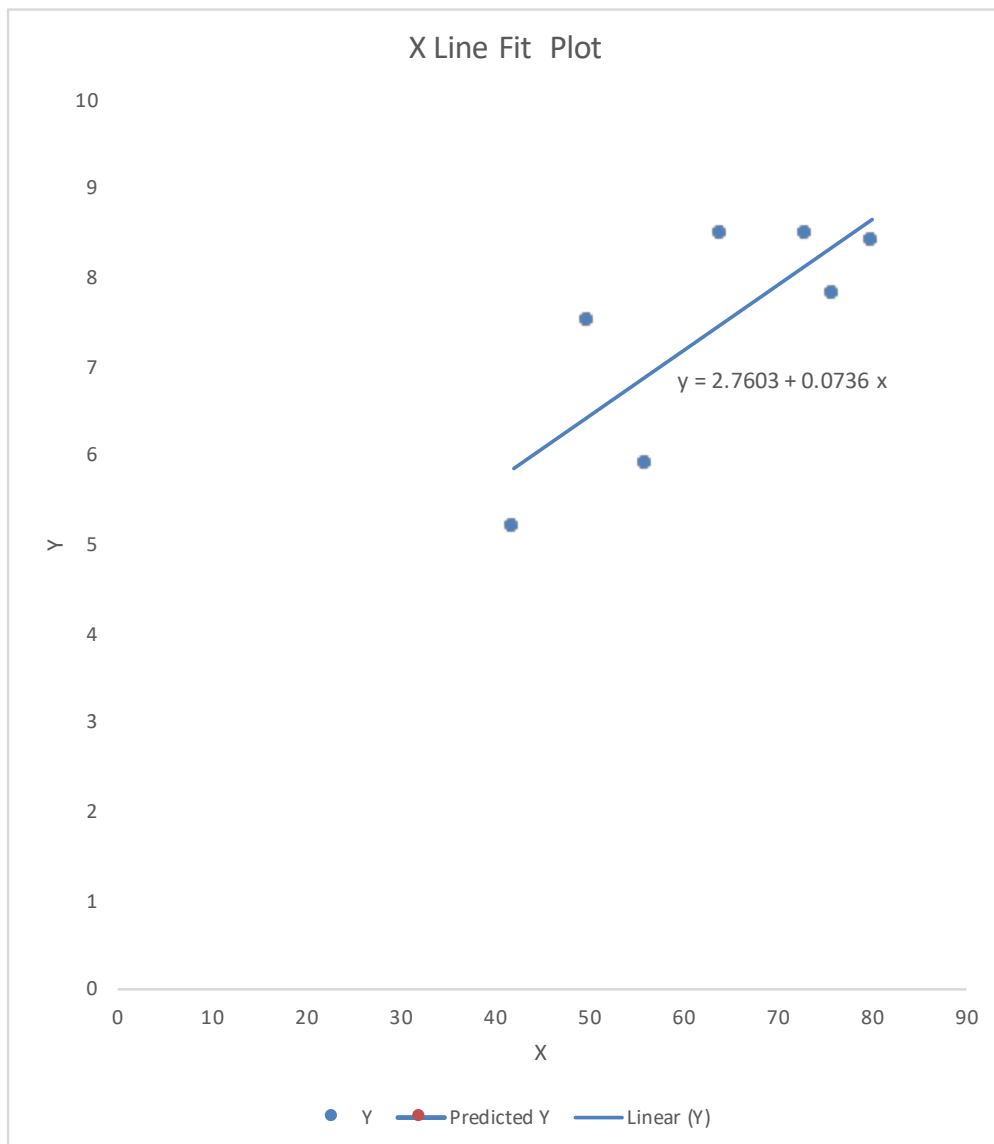
$V(Y) = E(V^2) - E(V)^2 = 1.53$

$r = Cov(X,Y) / (\sigma(X) \sigma(Y)) = 0.786$

$b = Cov(X,Y) / V(X) = 0.074$

$a = E(Y) - b E(X) = 2.760$

$<5 = 30.41$



X	Y	U = X	V = Y	U ²	V ₂	UV
20	95	20	95	400	9025	1900
18	88	18	88	324	7744	1584
11	50	11	50	121	2500	550
7	30	7	30	49	900	210
12	62	12	62	144	3844	744
15	74	15	74	225	5476	1110
		83	399	1263	29489	6098
		13.83	66.50	210.50	4914.83	1016.33

$$\text{Cov}(X,Y) = E(UV) - E(U)E(V) = 96.42$$

$$V(X) = E(U^2) - E(U)^2 = 19.14$$

$$V(Y) = E(V^2) - E(V)^2 = 492.58$$

$$r = \text{Cov}(X,Y) / (\sigma(X) \sigma(Y)) = 0.99$$

$$b = \text{Cov}(X,Y) / V(X) = 5.04$$

$$a = E(Y) - b E(X) = -3.19$$

> 80

16.51

