

Figure3: Student’s example in final exam.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1									X	Y	CuttingSpeed	X^2	Y^2	XY		
2			Cutting	Speed	(rpm)				60	8	1000	3600	64	480		
3	1000	1000	1200	1200	1400	1400			80	30	1000	6400	900	2400		
4	y	x	y	x	y	x			90	38	1000	8100	1444	3420		
5	8	60	52	105	58	115			65	17	1000	4225	289	1105		
6	30	80	34	80	22	72			76	28	1000	5776	784	2128		
7	38	90	5	60	13	64			105	52	1200	11025	2704	5460		
8	17	65	14	65	32	81			80	34	1200	6400	1156	2720		
9	28	76	25	73	20	70			60	5	1200	3600	25	300		
10									65	14	1200	4225	196	910		
11									73	25	1200	5329	625	1825		
12	Syy=	3173.6		Y1.Bar	24.2				115	58	1400	13225	3364	6670		
13	Sxx=	3556.93		Y2.Bar	26				72	22	1400	5184	484	1584		
14	Sxy=	3307.6		Y3.Bar	29				64	13	1400	4096	169	832		
15	Tyy=	58.8		X1.Bar	74.2				81	32	1400	6561	1024	2592		
16	Txx=	97.7333		X2.Bar	76.6				70	20	1400	4900	400	1400		
17	Txy=	75.8		X3.Bar	80.4				1156	396	18000	92646	13628	33826		
18	Eyy=	3114.8		X..Bar	77.0666667					10454.4						
19	Exx=	3459.2		adjY1.	26.8782185											
20	Exy=	3231.8		adjY2.	26.4359891			Row Labels	Sum of Y	Sum of X	Xi.^2	Yi.^2	Xi.Yi.			
21				adjY3.	25.8857925			1000	121	371	137641	14641	44891			
22	Bat=	0.93426						1200	130	383	146689	16900	49790			
23								1400	145	402	161604	21025	58290			
24								Grand Total	396	1156	445934	52566	152971			
25																