PROBLEM-1

t(X)	R(Y)		
40	1069.1		
50	1063.6		
60	1058.2	ΣΥ	7352
70	1052.7	ΣΧ	52
90	1041.8	∑X*X	4280
100	1036.3	∑X*Y	54390
110	1030.8		

Y=AX+B

**NORMAL EQUATIONS ARE:** 

 $\Sigma Y = A \Sigma X + B N$  $\Sigma X * Y = A \Sigma X * X + B \Sigma X$  7352.5=520X+7B 543905=42800A+520B

1075		
1070		
1065		
1060		
1055		
1050		
1045		
1040		
1035		
1030		
1025		
0	20	40

COEFF 520 42800	MATRIX 7 520	VARIABLE A B	VALUE 7352.5 543905		INVERSE -0.01781 1.465753	0.00024 -0.01781	VALUE 7352.5 543905	
					A B	-0.54675 1090.973		Therefore, line quuati Y=-0.55X+1090.97
t(X) 40	R(Y) 1069.1	Y' 1068.97	Y-Y' 0.13	(Y-Y')^2 0.0169				
50	1063.6	1063.47	0.13	0.0169				Ol
60	1058.2	1057.97	0.23	0.0529				Chart Tit
70	1052.7	1052.47	0.23	0.0529		1075		
90	1041.8	1041.47	0.33	0.1089		1070		0,
100	1036.3	1035.97	0.33	0.1089		1065		,

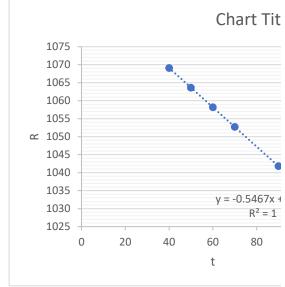
0.1089

mean squared error, MSE: 0.066614

1030.47

1030.8

110



Y(80)=1047.264

0.33

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