Least Square Curve Fit using Simulated Temperature Data

Calculated →		0.556271	= m	0.55556	= m actual
		-18.68	= b	-17.78	= b actual

	4514.00	=sumx	20376196.00	=sumx*sumx
	1819.95	=sumy	37.00	= n
	280692.70	= sumxy		
	656158.00	=sumxx		

	10.00	= Scaled Error

N	x Deg F	y Deg C	Error	y' Measured C	x*y'	x*x	y Calculated Deg C
1	32	0.00	-6.59	-6.59	-210.93	1024.00	-0.88
2	37	2.78	4.62	7.39	273.57	1369.00	1.90
3	42	5.56	-6.51	-0.96	-40.23	1764.00	4.69
4	47	8.33	0.11	8.44	396.64	2209.00	7.47
5	52	11.11	-9.32	1.79	93.25	2704.00	10.25
6	57	13.89	-0.93	12.96	738.62	3249.00	13.03
7	62	16.67	5.27	21.94	1360.23	3844.00	15.81
8	67	19.44	0.70	20.15	1349.76	4489.00	18.59
9	72	22.22	0.23	22.46	1616.84	5184.00	21.37
10	77	25.00	-0.12	24.88	1916.00	5929.00	24.16
11	82	27.78	-2.13	25.65	2103.35	6724.00	26.94
12	87	30.56	0.85	31.40	2732.16	7569.00	29.72
13	92	33.33	5.59	38.93	3581.24	8464.00	32.50
14	97	36.11	-9.43	26.68	2588.13	9409.00	35.28
15	102	38.89	9.77	48.66	4963.71	10404.00	38.06
16	107	41.67	-4.95	36.72	3928.65	11449.00	40.84
17	112	44.44	-6.92	37.53	4202.94	12544.00	43.63
18	117	47.22	-7.73	39.49	4620.60	13689.00	46.41
19	122	50.00	8.36	58.36	7120.50	14884.00	49.19
20	127	52.78	-5.36	47.42	6022.39	16129.00	51.97
21	132	55.56	8.80	64.36	8495.04	17424.00	54.75
22	137	58.33	9.53	67.86	9297.24	18769.00	57.53
23	142	61.11	-9.43	51.68	7338.32	20164.00	60.31
24	147	63.89	9.71	73.60	10819.03	21609.00	63.09
25	152	66.67	1.61	68.28	10378.37	23104.00	65.88
26	157	69.44	-3.02	66.42	10428.61	24649.00	68.66
27	162	72.22	-3.34	68.88	11158.14	26244.00	71.44
28	167	75.00	0.17	75.17	12554.01	27889.00	74.22
29	172	77.78	-9.82	67.96	11688.74	29584.00	77.00
30	177	80.56	-6.73	73.83	13067.07	31329.00	79.78
31	182	83.33	-5.11	78.22	14236.43	33124.00	82.56
32	187	86.11	1.96	88.07	16469.05	34969.00	85.35
33	192	88.89	5.91	94.80	18202.34	36864.00	88.13
34	197	91.67	9.55	101.21	19939.13	38809.00	90.91
35	202	94.44	-7.56	86.88	17550.23	40804.00	93.69
36	207	97.22	-8.57	88.65	18350.95	42849.00	96.47
37	212	100.00	0.77	100.77	21362.59	44944.00	99.25

Least Squares Curve Fit

Simulated Temperature Data