## Sardar Patel Institute of Technology



Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India (Autonomous College Affiliated to University of Mumbai)

Experiment No.	0
Aim	To implement the various functions e.g. linear, non-linear, quadratic, exponential etc.
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UID No.	20213000048
Class & Division	SE Comps A
Date of Performance	30-01-2023
Date of Submission	4-02-2023

## **Theory/Experiment:**

## Nature of graph of the given function

#### 1. n

A line can be thought of as a **function**, which means that if a value of x is given, the equation of the line produces exactly one value of y. It is observed that the function f(n) is linear.

## 2. ln(ln(n))

It is observed that the value of ln(ln(n)) is negative i.e below line y = 0 for value of x upto 1 and at x = 2 the function value is 0 and is increasing for other value's of x.

## 3. ln(n)

It is observed that the value of ln(n) is negative i.e below line y = 0 for value of x less than 1 and at x = 1 the function value is 0 and is increasing for other value's of x.

## 4. $\sqrt{\ln(n)}$

It is observed that the value of  $f(\sqrt{\ln(n)})$  is not define for value of x less than 1 and at x = 1 the function value is 0 and is increasing for other value's of x.

## 5. $(\ln(n))^2$

It is observed that the value of  $f((\ln(n))^2)$  is 0 at x = 1 and is increasing for other value's of x.

#### 6. (2) $^{\land}$ $ln_2(n)$

The value of this function is equal to n whose nature of graph will be linear.

### 7. (n \* ln(n))

It is observed that the value of f(n \* ln(n)) is negative and not linear for value of x less than 1 and at x = 1 the function value is 0 and is increasing for other value's of x.

## 8. $(n^1/\lg(n))$

The value of this function  $f(n^1/\lg(n))$  is constant i.e 2 for every value of x.

#### 9. $(root(2)^{n}ln(n))$

The value of this function  $f(root(2)^n(n))$  is equal to the value of root(n) and the graph is increasing but not linear.

# 10. $(2^{n}(root(2*log(n)))$

It is observed that the value of  $f(2^{(root(2*log(n)))})$  is not defined for value of x less than 1, at x = 1 the value of this function is 1 and is increasing on increasing the value of x.

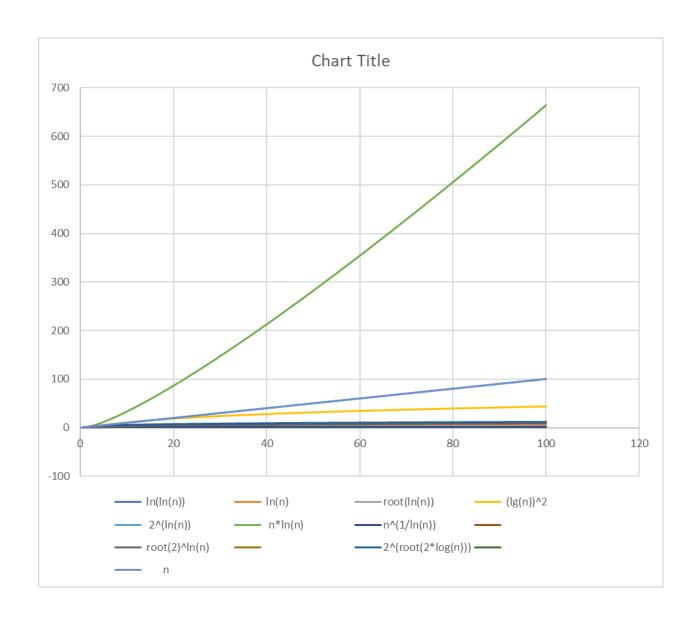
# 11. (n!)

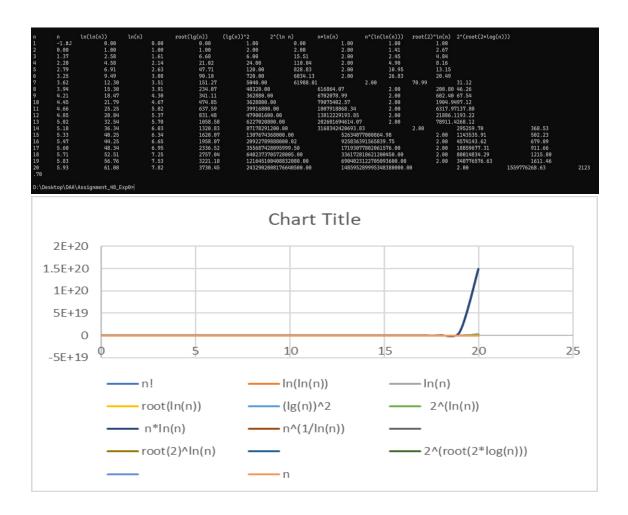
The value of n! is 1 for n=0 and n=1 and increasing exponentially on increasing the value of n.

## **OBSERVATION:-**

2	Command Pro	ompt ×	+ ~							-	o ×
D:\D	esktop\DA	AA>cd Assignme	nt_48_Exp0								
			.48_Exp0>gcc main.								
D:\D n 0	esktop\DA n 0	AA\Assignment_ ln(ln(n)) -1.#J	.48_Exp0>a ln(n) -1.#J	root(lg(n)) -1.#J	(lg(n))^2 1.#J	2^(ln n) 0.00	n*ln(n) -1.#J	n^1/lg(n) 1.00	root(2)^ln(n) 0.00	2^(root(2*log(n))) 1.#J	
1		-1.#J	0.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	
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4 5	4 5	1.00	2.00	1.41 1.52	4.00 5.39	4.00 5.00	8.00 11.61	2.00 2.00	2.00 2.24	4.00 4.45	
6	6	1.37	2.58	1.61	6.68 7.88	6.00 7.00	15.51 19.65	2.00	2.45	4.84 5.17	
8		1.58	3.00	1.73	9.00	8.00	24.00	2.00	2.83	5.46	
9 10	9 10	1.66 1.73	3.17 3.32	1.78 1.82	10.05 11.04	9.00 10.00	28.53 33.22	2.00 2.00	3.00 3.16	5.73 5.97	
11 12	11 12	1.79 1.84	3.46 3.58	1.86 1.89	11.97 12.85	11.00 12.00	38.05 43.02	2.00	3.32 3.46	6.19 6.40	
13		1.89	3.70	1.92	13.69	13.00	48.11	2.00	3.61	6.59	
14 15	14 15	1.93 1.97	3.81 3.91	1.95 1.98	14.50 15.26	14.00 15.00	53.30 58.60	2.00	3.74 3.87	6.77 6.94	
16 17	16 17	2.00	4.00 4.09	2.00 2.02	16.00 16.71	16.00 17.00	64.00 69.49	2.00	4.00 4.12	7.10 7.26	
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19 20	19 20	2.09 2.11	4.25 4.32	2.06 2.08	18.04 18.68	19.00 20.00	80.71 86.44	2.00 2.00	4.36 4.47	7.54 7.67	
21 22	21 22	2.13 2.16	4.39 4.46	2.10 2.11	19.29 19.89	21.00 22.00	92.24 98.11	2.00	4.58 4.69	7.80 7.93	
23		2.18	4.52	2.13	20.46	23.00	104.04	2.00	4.80	8.04	
24 25	24 25	2.20 2.22	4.58 4.64	2.14 2.15	21.02 21.57	24.00 25.00	110.04 116.10	2.00	4.90 5.00	8.16 8.27	
26 27	26 27	2.23 2.25	4.70 4.75	2.17 2.18	22.09 22.61	26.00 27.00	122.21 128.38	2.00 2.00	5.10 5.20	8.37 8.48	
28 29	28	2.27	4.81 4.86	2.19	23.11	28.00 29.00	134.61 140.88	2.00	5.29 5.39	8.58	
30	29 30	2.29	4.91	2.20 2.22	24.08	30.00	147.21	2.00	5.48	8.68 8.77	
31 32	31 32	2.31	4.95 5.00	2.23 2.24	24.54 25.00	31.00 32.00	153.58 160.00	2.00 2.00	5.57 5.66	8.86 8.95	
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35	35	2.36	5.13	2.26	26.31	35.00	179.52	2.00	5.92	9.21	
36 37	36 37	2.37 2.38	5.17 5.21	2.27 2.28	26.73 27.14	36.00 37.00	186.12 192.75	2.00 2.00	6.00 6.08	9.29 9.37	
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38 39 40 41 42 43 44 45	38 39 40 41 42 43 44	2.39 2.40 2.41 2.42 2.43 2.44	5.25 5.29 5.32 5.36 5.39 5.43 5.46 5.49	2.30 2.31 2.31 2.32 2.33 2.34 2.34	27.94 28.32 28.70 29.08 29.44 29.81 30.16	39.00 40.00 41.00 42.00 43.00 44.00 45.00	206.13 212.88 219.66 226.48 233.33 240.21 247.13	2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71	9.45 9.52 9.60 9.67 9.74 9.81 9.88 9.95	O X
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38 39 40 41 42 43 44 45 46 47 48	38 39 40 41 42 43 44 45 46 47	2.39 2.40 2.41 2.42 2.43 2.44 2.45 2.46 2.47 2.47	5.25 5.29 5.32 5.36 5.39 5.43 5.46 5.49 5.52 5.55	2.30 2.31 2.31 2.32 2.33 2.34 2.34 2.35 2.36	27.94 28.32 28.70 29.08 29.44 29.81 30.16 30.15 38.85 31.19	39.00 40.00 41.00 42.00 43.00 44.00 45.00 46.00 47.00 48.00	206.13 212.88 219.66 226.48 233.33 240.21 247.13 254.08 261.07 268.08	2.90 2.00 2.90 2.90 2.90 2.00 2.00 2.90 2.9	6.24 6.32 6.48 6.56 6.63 6.71 6.78 6.86 6.93	9.45 9.52 9.66 9.67 9.74 9.81 9.88 9.95 10.61 10.68	O X
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38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55	2.39 2.40 2.41 2.43 2.44 2.45 2.46 2.47 2.47 2.48 2.49 2.50 2.50 2.50	5, 25 5, 29 5, 36 5, 39 5, 44 5, 46 5, 52 5, 55 5, 51 5, 61 5, 64 5, 67 5, 73	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 35 2. 36 2. 36 2. 37 2. 38 2. 38 2. 39 2. 39 2. 40 2. 40 2. 40	27.94 28.32 28.70 29.08 29.44 30.16 30.51 30.85 31.19 31.52 31.85 32.18 32.50 32.81	39.00 40.00 41.00 42.00 43.00 44.00 45.00 46.00 47.00 49.00 50.00 51.00 52.00 53.00	206.13 212.88 219.66 226.48 233.33 240.21 247.13 254.08 261.07 268.08 275.12 282.19 289.29 296.42 303.58	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.93 7.90 7.97 7.14 7.21 7.22 7.35 7.42	9.45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 16.61 16.20 16.27 16.33 16.39	Ø X
38 39 40 41 42 43 44 45 46 47 48 49 51 52 53 54 55 56 57	38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	2.39 2.40 2.41 2.42 2.43 2.45 2.45 2.46 2.47 2.49 2.49 2.50 2.50 2.50 2.51 2.52 2.52	5, 25 5, 29 5, 32 5, 36 5, 49 5, 46 5, 49 5, 52 5, 55 5, 58 5, 61 5, 67 5, 73 5, 73 5, 73 5, 78 5, 78	2, 30 2, 31 2, 31 2, 32 2, 33 2, 34 2, 34 2, 36 2, 36 2, 36 2, 36 2, 38 2, 38 2, 38 2, 39 2, 40 2, 40 2, 40 2, 41 2, 42	27, 94 28, 32 28, 76 29, 08 29, 14 29, 81 30, 16 30, 51 31, 19 31, 52 31, 85 32, 18 33, 12 33, 12 33, 73 34, 02	39.00 41.00 41.00 42.00 43.00 44.00 45.00 45.00 46.00 49.00 50.00 51.00 53.00 53.00 55.00 55.00 55.00	266. 13 212. 88 219. 66 226. 48 233. 33 249. 21 247. 13 254. 98 261. 97 268. 98 275. 12 282. 19 289. 29 29. 29 303. 58 310. 76 317. 97 325. 21	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.86 6.93 7.00 7.14 7.21 7.28 7.35 7.42 7.48	9.45 9.52 9.60 9.67 9.74 9.81 9.85 9.95 10.01 10.08 10.27 10.33 10.33 10.39 10.44 10.56 10.66	<u> </u>
38 39 40 41 42 43 44 45 46 47 48 49 50 51 55 56 57 58 59	38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 57 58 57 58	2.39 2.40 2.41 2.42 2.43 2.44 2.45 2.47 2.48 2.49 2.50 2.50 2.50 2.52 2.52 2.53 2.54 2.54 2.55	5, 25 5, 29 5, 32 5, 36 5, 39 5, 46 5, 49 5, 52 5, 55 5, 58 5, 61 5, 67 5, 73 5, 73 5, 78 5, 78 5, 78 5, 83 5, 83 5, 83	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 36 2. 36 2. 37 2. 38 2. 38 2. 39 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 43	27, 94 28, 32 28, 76 29, 88 29, 44 29, 81 30, 16 30, 51 31, 19 31, 52 31, 85 32, 18 32, 50 32, 81 33, 12 33, 42 33, 42 34, 32 34, 32 34, 32 34, 32	39. 98 41. 90 41. 90 41. 90 42. 90 44. 90 44. 90 45. 90 45. 90 47. 90 48. 90 59. 90 55. 90 55. 90 55. 90 55. 90 55. 90 55. 90 55. 90 55. 90 55. 90	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 98 261. 97 269. 98 275. 12 282. 19 289. 29 296. 42 303. 58 317. 97 339. 76 317. 97 339. 76	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.86 6.93 7.00 7.14 7.21 7.22 7.42 7.42 7.55	9.45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.01 10.20 10.27 10.33 10.39 10.44 10.50 10.62 10.67 10.77	<u> </u>
38 39 40 41 42 44 45 46 47 49 50 51 52 53 54 55 57 58 59 60 61	38 39 40 41 42 43 44 45 46 47 47 48 49 50 51 52 53 54 55 55 55 56 57 58 69 61	2.39 2.40 2.41 2.42 2.43 2.44 2.45 2.47 2.47 2.48 2.50 2.50 2.50 2.52 2.52 2.53 2.52 2.53 2.54 2.55 2.55 2.55	5, 25 5, 29 5, 36 5, 36 5, 43 5, 46 5, 52 5, 55 5, 52 5, 58 5, 61 5, 64 5, 73 5, 73 5, 78 5, 78 5, 78 5, 83 5, 83 5, 83 5, 88 5, 88	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 36 2. 36 2. 36 2. 37 2. 38 2. 38 2. 39 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 43 2. 43 2. 44	27, 94 28, 32 28, 70 29, 88 29, 44 29, 81 30, 16 30, 51 31, 19 31, 52 31, 85 32, 18 32, 18 33, 12 33, 42 33, 42 34, 32 34, 61 34, 61 34, 69 35, 17	39. 98 40. 99 41. 99 41. 99 41. 99 44. 99 45. 99 45. 99 49. 99 55. 99 55. 99 55. 99 55. 99 55. 99 56. 99 57. 99 59. 99 59. 99 59. 99 59. 99 59. 99 59. 99 59. 99 59. 99 59. 99 69. 99	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 98 261. 97 269. 98 275. 12 282. 19 296. 42 393. 58 310. 76 317. 97 332. 47 339. 76 347. 98 354. 41 361. 77	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.93 7.07 7.14 7.21 7.28 7.42 7.48 7.55 7.62 7.68 7.75	9. 45 9. 52 9. 60 9. 67 9. 74 9. 81 9. 88 10. 14 10. 28 10. 27 10. 33 10. 39 10. 44 10. 50 10. 67 10. 62 10. 67 10. 72 10. 78 10. 88	**************************************
38 40 41 42 44 45 47 48 49 50 51 52 53 55 56 57 58 59 60 61 62	38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 55 56 67 68 61 62	2,39 2,40 2,41 2,42 2,43 2,44 2,45 2,46 2,47 2,48 2,50 2,50 2,51 2,52 2,52 2,52 2,53 2,54 2,55 2,56 2,57	5.25 5.29 5.36 5.39 5.41 5.49 5.52 5.55 5.58 5.61 5.64 5.77 5.77 5.78 5.78 5.81 5.81 5.83 5.93 5.93	2. 30 2. 31 2. 32 2. 33 2. 34 2. 34 2. 35 2. 36 2. 36 2. 36 2. 37 2. 38 2. 38 2. 38 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 43 2. 43 2. 44 2. 44	27, 94 28, 32 28, 76 29, 08 29, 44 29, 81 30, 16 30, 51 30, 85 31, 19 31, 52 31, 85 32, 58 32, 58 33, 12 33, 12 33, 12 33, 12 33, 13 34, 02 34, 61 34, 81 35, 17 36, 87	39. 68 40. 68 41. 69 41. 69 43. 60 44. 60 44. 60 47. 60 49. 60 56. 60 51. 69 52. 60 53. 60 54. 60 55. 60 55. 60 55. 60 56. 60 57. 60 58. 60 59. 60 66. 60 66. 60 66. 60 66. 60 66. 60 66. 60	266. 13 212. 88 219. 66 226. 48 233. 33 244. 21 247. 13 254. 08 261. 07 268. 08 275. 12 282. 19 289. 29 296. 42 303. 58 310. 76 317. 97 325. 21 332. 47 339. 76 347. 08 354. 41 361. 77 369. 16	2.98 2.90 2.90 2.90 2.90 2.90 2.90 2.90 2.90	6.24 6.32 6.49 6.56 6.63 6.71 6.78 6.86 6.93 7.90 7.97 7.14 7.21 7.28 7.35 7.42 7.49 7.55 7.42 7.62	9. 45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.01 10.28 10.27 10.33 10.33 10.39 10.44 10.56 10.62 10.67 10.72 10.72 10.83 10	**************************************
38 9 40 41 2 43 44 45 47 48 9 55 5 5 5 5 5 5 5 5 6 6 6 1 6 2 3 6 4 6 4 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6	38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 67 60 61 62 63 64	2,39 2,49 2,41 2,42 2,43 2,44 2,445 2,46 2,47 2,48 2,50 2,50 2,50 2,51 2,52 2,52 2,52 2,52 2,53 2,54 2,55 2,56 2,57 2,57 2,58 2,58	5.25 5.29 5.36 5.39 5.41 5.49 5.52 5.55 5.58 5.61 5.64 5.77 5.78 5.78 5.78 5.78 5.79 5.91 5.91 5.91	2. 30 2. 31 2. 32 2. 33 2. 34 2. 34 2. 34 2. 36 2. 36 2. 36 2. 37 2. 38 2. 38 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 42 2. 42 2. 42 2. 44 2. 44 2. 44 2. 44	27, 94 28, 32 28, 76 29, 08 29, 44 29, 81 30, 16 30, 51 31, 19 31, 55 32, 18 32, 18 33, 12 33, 12 33, 13 33, 42 34, 32 34, 32 34, 31 35, 48 35, 73 34, 89 35, 45 36, 00	39. 98 41. 90 41. 90 41. 90 42. 60 43. 90 44. 90 44. 90 45. 90 45. 90 46. 90 56. 90 57. 90 58. 90 58. 90 59. 90 60. 90 62. 90 63. 90 64. 90 64. 90	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 98 261. 19 262. 19 262. 19 262. 19 269. 29 275. 12 363. 58 310. 76 317. 97 325. 21 339. 76 349. 40 359. 40 369. 16 376. 57 369. 16	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.56 6.63 6.71 6.78 6.86 6.93 7.00 7.14 7.21 7.22 7.48 7.55 7.42 7.42 7.48 7.55 7.62 7.75 7.62	9. 45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.08 10.14 10.20 10.27 10.33 10.33 10.39 10.44 10.56 10.67 10.67 10.72 10.73 10.88 10.88 10.93 10.88	**************************************
38 9 40 41 12 43 44 5 50 5 5 7 5 5 9 60 61 62 63 64 65 66 66	38 39 49 41 42 43 445 446 447 48 49 50 51 52 53 54 55 56 67 62 63 64 65 66	2,39 2,40 2,41 2,42 2,43 2,44 2,445 2,46 2,47 2,48 2,50 2,50 2,51 2,50 2,51 2,52 2,52 2,52 2,54 2,55 2,56 2,57 2,58 2,56 2,57 2,58 2,58 2,58 2,59 2,58 2,56 2,57 2,58 2,58 2,58 2,58 2,58 2,58 2,58	5, 25 5, 29 5, 32 5, 36 5, 49 5, 49 5, 55 5, 55 5, 57 5, 67 5, 73 5, 73 5, 73 5, 78 5, 83 5, 83 5, 83 5, 83 5, 83 6, 93 6, 93 6, 94	2. 30 2. 31 2. 32 2. 33 2. 34 2. 34 2. 34 2. 36 2. 36 2. 37 2. 38 2. 38 2. 39 2. 39 2. 40 2. 41 2. 42 2. 42 2. 42 2. 42 2. 42 2. 43 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44 2. 44	27, 94 28, 32 28, 76 29, 44 29, 41 30, 16 30, 51 31, 19 31, 15 32, 18 32, 18 32, 50 32, 81 33, 42 33, 42 34, 32 34, 32 34, 32 34, 35 35, 45 35, 45 36, 60 36, 57	39. 98 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 45. 90 45. 90 45. 90 55. 90 55. 90 55. 90 56. 90 66. 90 64. 90 65. 90 66. 90 66. 90 66. 90	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 98 261. 97 268. 98 275. 12 282. 19 289. 29 296. 42 383. 58 310. 76 317. 97 325. 21 332. 47 339. 76 347. 98 354. 41 369. 16 376. 57 384. 90 391. 45	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.53 6.71 6.78 6.86 6.93 7.00 7.14 7.21 7.22 7.42 7.55 7.62 7.55 7.62 7.55 7.62 8.86 8.86 8.86	9. 45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.08 10.14 10.20 10.27 10.33 10.39 10.44 10.56 10.62 10.62 10.67 10.72 10.83 10.93 10.98 10.98	**************************************
38 9 40 41 2 43 44 5 46 47 8 49 50 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6	38 39 40 41 42 43 44 45 46 47 48 49 59 51 52 53 54 55 55 56 57 58 59 60 61 62 63 64 65	2.39 2.40 2.41 2.42 2.43 2.44 2.45 2.47 2.47 2.48 2.50 2.50 2.50 2.50 2.55 2.55 2.55 2.55	5, 25 5, 29 5, 32 5, 36 5, 43 5, 44 5, 52 5, 55 5, 58 5, 64 5, 73 5, 73 5, 78 5, 78 5, 88 5, 88	2 . 30 2 . 31 2 . 31 2 . 32 2 . 33 2 . 34 2 . 34 2 . 36 2 . 36 2 . 36 2 . 37 2 . 38 2 . 38 2 . 39 2 . 39 2 . 40 2 . 40 2 . 41 2 . 42 2 . 42 2 . 42 2 . 43 2 . 44 2 . 44 2 . 44 2 . 44 2 . 44 2 . 44 2 . 44 2 . 44 2 . 44 2 . 45	27, 94 28, 32 28, 70 29, 08 29, 44 29, 81 30, 85 31, 19 31, 52 31, 85 32, 58 32, 18 33, 12 33, 42 33, 42 33, 43 34, 62 34, 61 35, 17 35, 45 35, 73 36, 00 36, 27	39. 98 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 45. 90 45. 90 45. 90 55. 90 55. 90 55. 90 56. 90 66. 90 61. 90 65. 90 66. 90 67. 90 66. 90 67. 90	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 08 261. 07 268. 08 275. 12 262. 19 289. 19 296. 42 363. 58 310. 76 317. 97 325. 21 332. 47 332. 47 337. 98 347. 08 359. 16 376. 57 389. 16 376. 57 384. 00 391. 45	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.86 6.93 7.90 7.14 7.21 7.22 7.42 7.42 7.42 7.55 7.42 7.55 7.62 7.87 7.87 7.87	9.45 9.52 9.67 9.67 9.74 9.81 9.88 9.95 10.61 10.28 10.27 10.33 10.39 10.44 10.50 10.62 10.67 10.72 10.88 10.88 10.93 10.88 10.93 10.93 10.99 11.04	o ×
38 9 40 1 42 43 44 5 46 7 48 49 5 5 5 5 5 5 7 5 8 5 6 6 6 6 6 6 6 7 8 6 6 9	38 39 40 41 412 43 445 447 448 49 50 51 52 53 54 55 56 57 66 67 68 69	2.39 2.49 2.41 2.42 2.43 2.44 2.45 2.47 2.48 2.47 2.59 2.59 2.51 2.52 2.52 2.53 2.55 2.55 2.55 2.55 2.55	5, 25 5, 29 5, 36 5, 39 5, 49 5, 55 5, 59 5, 64 5, 78 5, 78 5, 78 5, 78 5, 83 5, 83	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 36 2. 36 2. 36 2. 37 2. 38 2. 38 2. 38 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 42 2. 42 2. 43 2. 44	27, 94 28, 32 28, 76 29, 08 29, 141 30, 16 30, 51 31, 19 31, 52 31, 85 32, 18 32, 28 32, 18 32, 28 33, 12 33, 13 34, 02 34, 61 34, 61 35, 73 36, 08 37, 36 37, 36	39. 68 40. 69 41. 69 41. 69 42. 69 43. 69 44. 69 44. 69 44. 69 47. 69 48. 69 55. 69 55. 69 55. 69 55. 69 55. 69 56. 69 61. 69 63. 69 64. 69 65. 69 65. 69 65. 69 66. 69 66. 69 66. 69 66. 69 66. 69 66. 69 66. 69 66. 69	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 08 261. 07 268. 08 275. 12 282. 19 289. 29 296. 41 289. 29 296. 42 303. 58 310. 76 3317. 97 325. 21 332. 47 339. 76 347. 08 354. 41 361. 77 384. 90 391. 45 398. 93 441. 95	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.97 7.93 7.93 7.97 7.14 7.21 7.21 7.35 7.42 7.48 7.55 7.62 7.68 7.87 7.81 7.87 7.94 8.00 8.12 8.12 8.12	9.45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.61 10.20 10.27 10.33 10.39 10.44 10.56 10.62 10.67 10.72 10.83 10.88 10.99 11.09 11.09 11.09 11.09 11.09	o ×
38 39 40 1 42 43 44 45 64 7 48 9 50 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6	38 39 40 41 41 41 41 41 41 41 41 41 41 41 41 41	2.39 2.49 2.41 2.42 2.443 2.445 2.47 2.48 2.47 2.48 2.50 2.50 2.51 2.52 2.52 2.52 2.55 2.55 2.55 2.55	5.25 5.29 5.36 5.39 5.49 5.52 5.55 5.59 5.61 5.64 5.75 5.75 5.78 5.73 5.73 5.83 5.83 5.93 5.93 6.09 6.07 6.09 6.01 6.11 6.13	2. 30 2. 31 2. 32 2. 33 2. 34 2. 34 2. 36 2. 36 2. 36 2. 36 2. 37 2. 38 2. 38 2. 38 2. 39 2. 40 2. 40 2. 40 2. 41 2. 42 2. 42 2. 43 2. 43 2. 43 2. 44	27, 94 28, 32 28, 76 29, 08 29, 141 30, 16 30, 51 30, 15 31, 19 31, 52 31, 85 32, 18 32, 50 33, 12 33, 13 34, 61 33, 73 34, 61 35, 17 35, 17 36, 68 37, 68 37, 68 37, 78 37, 78 37, 78 37, 78	39. 68 40. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 56. 69 51. 69 52. 69 53. 69 55. 69 55. 69 55. 69 66. 69 61. 69 62. 69 63. 69 64. 69 65. 69 65. 69 66. 69 66. 69 67. 69 68. 69 66. 69 67. 69 68. 69 66. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 69. 69 69. 69 69. 69 61. 69	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 08 261. 07 268. 08 275. 12 282. 19 296. 42 282. 19 296. 42 303. 58 310. 76 317. 97 325. 21 332. 47 339. 76 347, 08 354. 41 361. 77 369. 16 376. 57 369. 16 376. 57 376. 57 381, 45 369. 16 376. 57 376. 57 381, 45 369. 16 376. 57 381, 45 369. 16 376. 57 381, 45 381, 4	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.56 6.63 6.71 6.78 6.86 6.93 7.90 7.91 7.11 7.21 7.25 7.48 7.35 7.42 7.48 7.55 7.42 7.87 7.87 7.81 7.81 7.81 7.81 7.81 7.81	9.45 9.52 9.69 9.67 9.74 9.81 9.88 9.95 10.61 10.20 10.27 10.33 10.39 10.44 10.50 10.62 10.67 10.72 10.83 10.83 10.83 10.93 10.93 10.93 10.93 10.93 10.93 10.93 10.10 10.50 10.62 10.62 10.62 10.62 10.62 10.72 10.83 10.93 10.	**************************************
38 99 401 42 43 44 45 64 78 48 99 50 51 52 53 55 56 66 67 68 69 77 17 27 3	38 39 40 41 41 41 41 41 41 41 41 41 41 41 41 41	2.39 2.40 2.41 2.42 2.43 2.44 2.45 2.47 2.48 2.49 2.50 2.50 2.50 2.51 2.52 2.53 2.53 2.54 2.55 2.56 2.56 2.57 2.57 2.58 2.58 2.59 2.59 2.59 2.59 2.59 2.59 2.59 2.59	5.25 5.29 5.36 5.36 5.43 5.46 5.52 5.55 5.57 5.73 5.73 5.73 5.78 5.81 5.83 5.83 5.93 5.93 5.93 6.09 6.09 6.09 6.09 6.11	2. 30 2. 31 2. 32 2. 33 2. 34 2. 34 2. 34 2. 36 2. 36 2. 36 2. 37 2. 38 2. 38 2. 39 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 43 2. 44	27, 94 28, 32 28, 70 29, 88 29, 44 29, 81 30, 16 30, 51 31, 19 31, 85 32, 18 33, 12 33, 42 33, 42 33, 42 33, 42 33, 42 33, 42 33, 42 33, 42 33, 42 33, 42 33, 50 34, 61 34, 61 34, 61 35, 73 36, 66 37, 31 36, 88 37, 86 37, 86 37, 86 37, 87	39. 98 40. 99 41. 90 41. 90 41. 90 44. 90 44. 90 44. 90 44. 90 45. 90 49. 90 51. 90 52. 90 55. 90 55. 90 56. 90 66. 90 66	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 98 261. 97 269. 98 275. 16 289. 29 296. 42 303. 58 310. 76 337. 97 339. 76 347. 98 354. 41 361. 77 369. 16 376. 57 384. 90 391. 45 398. 93 496. 43 413. 95 421. 49	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.86 6.93 7.07 7.14 7.21 7.28 7.42 7.48 7.55 7.62 7.68 7.75 7.87 7.87 7.87 7.87 7.87 7.87 7.8	9. U5 9. 52 9. 60 9. 67 9. 77 9. 81 9. 88 9. 95 10. 01 10. 28 10. 27 10. 33 10. 39 10. 44 10. 50 10. 62 10. 67 10. 72 10. 73 10. 88 10. 88 10. 93 10. 88 10. 93 11. 99 11. 109 11. 13 11. 13 11. 13	o ×
38 99 441 42 44 45 47 48 95 15 25 35 45 55 66 16 26 36 46 56 67 68 97 17 27 37 4	38 39 40 41 41 41 41 41 41 41 41 41 41 41 41 41	2.39 2.49 2.41 2.42 2.43 2.44 2.45 2.47 2.48 2.59 2.59 2.50 2.51 2.52 2.53 2.55 2.55 2.55 2.55 2.55 2.55	5.25 5.29 5.32 5.36 5.43 5.44 5.52 5.55 5.52 5.55 5.61 5.64 5.73 5.73 5.78 5.83 5.83 5.83 5.83 5.88 6.89 6.89 6.69 6.69 6.11 6.12 6.12	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 35 2. 36 2. 36 2. 37 2. 38 2. 39 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 42 2. 43 2. 44 2. 48 2. 48 2. 48 2. 48 2. 49 2. 49	27, 94 28, 32 28, 70 29, 08 29, 44 29, 81 30, 16 30, 15 31, 19 31, 85 32, 18 32, 18 33, 12 33, 42 33, 42 33, 42 33, 42 33, 42 34, 61 34, 92 34, 61 35, 17 35, 17 35, 17 35, 17 36, 90 37, 91 37, 82 38, 97 38, 87 38, 87	39. 98 40. 90 41. 90 41. 90 42. 90 43. 60 44. 90 44. 90 45. 90 45. 90 45. 90 55. 90 55. 90 55. 90 55. 90 66. 90 67. 90 66. 90 67. 90 68. 80 69. 90 71. 90 72. 80 73. 90 74. 90	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 08 261. 07 268. 98 275. 12 282. 19 289. 19 289. 29 296. 42 363. 58 310. 76 317. 97 325. 21 332. 47 339. 48 354. 98 354. 98 354. 98 354. 98 354. 98 354. 98 354. 98 356. 16 376. 57 384. 90 391. 45 398. 93 441. 99 429. 95 446. 63 441. 93 4451. 86	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.93 7.90 7.14 7.21 7.28 7.42 7.42 7.48 7.55 7.62 7.63 8.90 8.12 8.19 8.25 8.37 8.43 8.49 8.54	9.45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.61 10.27 10.33 10.39 10.44 10.50 10.67 10.67 10.72 10.83 10.83 10.83 10.99 11.04 11.09 11.13 11.23 11.23 11.37 11.37 11.41 11.41	o ×
38 39 40 41 42 3 44 45 66 47 67 55 56 61 62 63 64 65 66 67 70 72 73 74 75 76	38 39 40 41 41 41 41 41 41 41 41 41 41 41 41 41	2.39 2.49 2.41 2.42 2.43 2.44 2.45 2.47 2.48 2.59 2.59 2.59 2.55 2.55 2.55 2.55 2.55	5.25 5.29 5.32 5.36 5.49 5.46 5.52 5.55 5.52 5.55 5.61 5.70 5.73 5.78 5.81 5.83 5.88 5.91 6.92 6.94 6.69 6.11 6.13 6.15 6.17 6.19 6.12 6.12 6.12 6.12 6.12 6.12 6.12 6.12	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 35 2. 36 2. 36 2. 37 2. 38 2. 39 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 42 2. 43 2. 44 2. 48 2. 48 2. 48 2. 48 2. 48 2. 49 2. 50 2. 50 2. 50	27, 94 28, 32 28, 70 29, 08 29, 44 30, 51 30, 55 31, 19 31, 52 31, 85 32, 58 32, 58 33, 12 33, 42 33, 42 33, 43 34, 62 34, 61 34, 62 34, 63 34, 63 37, 63 36, 57 36, 69 37, 66 37, 66 38, 80 37, 66 38, 80 37, 66 38, 80 37, 67 38, 57	39. 98 40. 99 41. 90 41	266. 13 212. 88 219. 66 226. 48 233. 33 240. 21 247. 13 254. 08 261. 07 268. 08 275. 12 262. 19 289. 19 289. 29 296. 42 283. 58 310. 76 317. 97 325. 21 332. 47 332. 47 337. 08 351. 47 369. 16 376. 57 384. 00 391. 45 398. 93 441. 95 421. 49 429. 05 446. 63 4411. 49 4459. 50 467. 16	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.71 6.78 6.93 7.90 7.97 7.14 7.21 7.22 7.42 7.42 7.43 7.55 7.42 7.88 7.75 7.81 7.94 8.90 8.12 8.12 8.25 8.31 8.49 8.54 8.60 8.60 8.60 8.60 8.60 8.60 8.60 8.60	9.45 9.52 9.66 9.67 9.74 9.81 9.88 9.95 10.61 10.68 10.14 10.29 10.33 10.44 10.50 10.67 10.72 10.62 10.67 10.72 10.88 10.99 11.04 10.99 11.09 11.13 11.13 11.23 11.37 11.41 11.46 11.56 11.56 11.56 11.56 11.56 11.56 11.56 11.57	o ×
38 39 40 41 42 3 44 45 66 67 78 78 78 78 78 78 78 78 78 78 78 78 78	38 39 40 41 41 41 41 41 41 41 41 41 41 41 41 41	2.39 2.49 2.41 2.42 2.43 2.44 2.45 2.47 2.48 2.59 2.59 2.50 2.51 2.52 2.52 2.52 2.53 2.55 2.55 2.56 2.57 2.58 2.56 2.66 2.61 2.62 2.63 2.63 2.63 2.63 2.63 2.63 2.63	5.25 5.29 5.32 5.36 5.49 5.49 5.55 5.52 5.55 5.61 5.76 5.78 5.78 5.78 5.83 5.83 5.83 5.83 5.83 6.89 6.99 6.11 6.12 6.12 6.12 6.22 6.22 6.22 6.22	2. 30 2. 31 2. 31 2. 32 2. 33 2. 34 2. 34 2. 35 2. 36 2. 36 2. 37 2. 38 2. 38 2. 38 2. 39 2. 40 2. 40 2. 40 2. 41 2. 42 2. 42 2. 43 2. 44 2. 45 2. 46 2. 47 2. 48 2. 48 2. 49 2. 50 2. 50 2. 50 2. 50 2. 50 2. 50 2. 50 2. 50 2. 50	27, 94 28, 32 28, 70 29, 08 29, 44 19, 81 30, 15 31, 19 31, 52 31, 85 32, 18 33, 12 33, 12 33, 12 33, 13 34, 02 34, 61 35, 17 35, 17 35, 17 36, 08 37, 08 37, 08 37, 08 37, 08 38, 87 38, 89 38, 87 38, 89 39, 94 39, 95	39. 98 40. 99 41. 99 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 41. 90 50. 90 50. 90 50. 90 50. 90 50. 90 60	266. 13 212. 88 219. 66 226. 48 233. 33 248. 21 247. 13 254. 08 261. 07 268. 08 275. 12 282. 19 289. 29 296. 42 363. 58 311. 76 317. 97 325. 21 332. 47 339. 76 347. 08 346. 43 431. 95 442. 49 429. 05 4471. 84 489. 26	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	6.24 6.32 6.40 6.48 6.56 6.63 6.93 7.90 7.91 7.21 7.21 7.28 7.42 7.48 7.55 7.42 7.88 7.94 8.96 8.12 8.19 8.25 8.31 8.43 8.43 8.49 8.54 8.54 8.54 8.54 8.57 8.77 8.77 8.77 8.77 8.77 8.77 8.77	9.45 9.52 9.66 9.67 9.74 9.81 9.88 9.95 10.61 10.28 10.27 10.33 10.33 10.39 10.44 10.56 10.62 10.67 10.72 10.83 10.83 10.93 10.93 11.64 11.69 11.13 11.13 11.13 11.13 11.14 11.23 11.37 11.41 11.55 11.55 11.55 11.55 11.55 11.55	o ×
38 39 40 11 42 33 44 44 44 46 47 48 49 55 15 55 55 55 56 66 66 66 66 66 66 66 66 66	38 39 40 41 41 41 41 41 41 41 41 41 41 41 41 41	2.39 2.49 2.41 2.42 2.43 2.445 2.46 2.47 2.48 2.50 2.50 2.51 2.52 2.52 2.52 2.52 2.52 2.55 2.55	5.25 5.29 5.36 5.39 5.41 5.49 5.52 5.55 5.58 5.61 5.64 5.77 5.78 5.78 5.81 5.81 5.81 5.81 5.83 5.91 5.93 5.99 6.00 6.02 6.07 6.11 6.12 6.12 6.12 6.23 6.22 6.22 6.22 6.22 6.22 6.22 6.22 6.23 6.23 6.23 6.23 6.23 6.26 6.27	2. 30 2. 31 2. 32 2. 33 2. 34 2. 34 2. 34 2. 36 2. 36 2. 36 2. 36 2. 38 2. 38 2. 38 2. 38 2. 39 2. 40 2. 40 2. 41 2. 42 2. 42 2. 42 2. 42 2. 43 2. 44 2. 45 2. 46 2. 47 2. 48 2. 49 2. 49 2. 50 2. 50 2. 50 2. 50 2. 50	27, 94 28, 32 28, 76 29, 08 29, 44 29, 81 30, 16 30, 51 30, 85 31, 19 31, 52 31, 85 32, 50 33, 12 33, 12 33, 12 33, 12 33, 14 33, 12 33, 13 34, 61 35, 17 35, 17 36, 80 37, 73 36, 80 37, 73 38, 80 37, 81 38, 80 39, 94 39, 27	39. 68 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 41. 69 56. 69 51. 69 52. 69 53. 69 54. 69 55. 69 56. 69 66. 69 67. 69 66. 69 67. 69 66. 69 67. 69 67. 69 67. 69 68. 69 67. 69 67. 69 68. 69 67. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 67. 69 68. 69 69. 69 67. 69 68. 69 69. 69 69. 69 69. 69 71. 69 73. 69 74. 69 75. 69 76. 69 77. 69	266. 13 212. 88 213. 33 214. 28 233. 33 244. 21 247. 13 254. 08 261. 07 268. 08 275. 12 282. 19 296. 42 303. 58 310. 76 317. 97 325. 21 332. 47 339. 76 347. 08 359. 19 369. 16 376. 57 384. 00 391. 45 398. 93 496. 43 411. 49 429. 95 441. 23 4441. 23 4451. 86 459. 50 467. 16 474. 84 482. 54	2.98 2.90 2.90 2.90 2.90 2.90 2.90 2.90 2.90	6.24 6.32 6.49 6.56 6.63 6.71 6.78 6.93 7.90 7.97 7.14 7.21 7.22 7.48 7.55 7.42 7.48 7.55 7.62 7.68 7.75 8.90 8.96 8.19 8.19 8.19 8.19 8.19 8.19 8.19 8.19	9.45 9.52 9.60 9.67 9.74 9.81 9.88 9.95 10.01 10.08 10.14 10.29 16.37 16.33 16.39 16.44 10.50 10.67 10.77 11.68 10.83 10.83 10.83 11.99 11.13 11.18 11.23 11.32 11.32 11.32 11.37 11.44 11.59 11.55 11.55	**************************************

<b>2</b> C	ommand Pro	mpt >	+ -							-	o	×
1	81	2.66	6.34	2.52	40.19	81.00	513.53	2.00	9.00	11.80		
	82	2.67	6.36	2.52	40.42	82.00	521.32	2.00	9.06	11.84		
	83	2.67	6.38	2.52	40.64	83.00	529.13	2.00	9.11	11.88		
4	84	2.68	6.39	2.53	40.86	84.00	536.95	2.00	9.17	11.92		
5	85	2.68	6.41	2.53	41.08	85.00	544.80	2.00	9.22	11.96		
6	86	2.68	6.43	2.54	41.30	86.00	552.66	2.00	9.27	12.00		
7	87	2.69	6.44	2.54	41.51	87.00	560.54	2.00	9.33	12.04		
	88	2.69	6.46	2.54	41.72	88.00	568.43	2.00	9.38	12.08		
	89	2.70	6.48	2.54	41.94	89.00	576.34	2.00	9.43	12.12		
	90	2.70	6.49	2.55	42.14	90.00	584.27	2.00	9.49	12.15		
	91	2.70	6.51	2.55	42.35	91.00	592.21	2.00	9.54	12.19		
	92	2.71	6.52	2.55	42.56	92.00	600.17	2.00	9.59	12.23		
	93	2.71	6.54	2.56	42.76	93.00	608.14	2.00	9.64	12.26		
	94	2.71	6.55	2.56	42.96	94.00	616.13	2.00	9.70	12.30		
	95	2.72	6.57	2.56	43.16	95.00	624.14	2.00	9.75	12.34		
	96	2.72	6.58	2.57	43.36	96.00	632.16	2.00	9.80	12.37		
	97	2.72	6.60	2.57	43.56	97.00	640.19	2.00	9.85	12.41		
	98	2.73	6.61	2.57	43.75	98.00	648.24	2.00	9.90	12.44		
	99	2.73	6.63	2.57	43.95	99.00	656.31	2.00	9.95	12.48		
90	100	2.73	6.64	2.58	44.14	100.00	664.39	2.00	10.00	12.51		





## **Conclusion:**

Through this experiment , I learned about the nature of graph of various function by implementing it's logic in C programming language. I learned about inserting a graph in MS-Excel file which helped me in understanding more clearly through it's representation.