

RADIO CONSTRUCTORS DATA SHEET

30

SQUARE ROOTS OF NUMBERS

The Table lists square roots, to 3 decimal places, of numbers from 1 to 100.

Number	Square Root	Number	Square Root	Number	Square Root	Number	Square Root	Number	Square Root
1	1.000	21	4.583	41	6.403	61	7.810	81	9.000
2	1.414	22	4.690	42	6.480	62	7.874	82	9.055
3	1.732	23	4.796	43	6.557	63	7.937	83	9.110
4	2.000	24	4.899	44	6.633	64	8.000	84	9.165
5	2.236	25	5.000	45	6.708	65	8.062	85	9.220
6	2.449	26	5.099	46	6.782	66	8.124	86	9.274
7	2.646	27	5.196	47	6.856	67	8.185	87	9.327
8	2.828	28	5.292	48	6.928	68	8.246	88	9.381
9	3.000	29	5.385	49	7.000	69	8.307	89	9.434
10	3.162	30	5.477	50	7.071	70	8.367	90	9.487
11	3.317	31	5.568	51	7.141	71	8.426	91	9.539
12	3.464	32	5.657	52	7.211	72	8.485	92	9.592
13	3.606	33	5.745	53	7.280	73	8.544	93	9.644
14	3.742	34	5.831	54	7.348	74	8.602	94	9.695
15	3.873	35	5.916	55	7.416	75	8.660	95	9.747
16	4.000	36	6.000	56	7.483	76	8.718	96	9.798
17	4.123	37	6.083	57	7.550	77	8.775	97	9.849
18	4.243	38	6.164	58	7.616	78	8.832	98	9.899
19	4.359	39	6.245	59	7.681	79	8.888	99	9.950
20	4.472	40	6.325	60	7.746	80	8.944	100	10.000

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CUBES OF NUMBERS

The Table lists cubes of numbers from 1 to 100.

Number	Cube	Number	Cube	Number	Cube	Number	Cube	Number	Cube
1	1	21	9,261	41	68,921	61	226,981	81	531,441
2	8	22	10,648	42	74,088	62	238,328	82	551,368
3	27	23	12,167	43	79,507	63	250,047	83	571,787
4	64	24	13,824	44	85,184	64	262,144	84	592,704
5	125	25	15,625	45	91,125	65	274,625	85	614,125
6	216	26	17,576	46	97,336	66	287,496	86	636,056
7	343	27	19,683	47	103,823	67	300,763	87	658,503
8	512	28	21,952	48	110,592	68	314,432	88	681,472
9	729	29	24,389	49	117,649	69	328,509	89	704,969
10	1,000	30	27,000	50	125,000	70	343,000	90	729,000
11	1,331	31	29,791	51	132,651	71	357,911	91	753,571
12	1,728	32	32,768	52	140,608	72	373,248	92	778,688
13	2,197	33	35,937	53	148,877	73	389,017	93	804,357
14	2,744	34	39,304	54	157,464	74	405,224	94	830,584
15	3,375	35	42,875	55	166,375	75	421,875	95	857,375
16	4,096	36	46,656	56	175,616	76	438,976	96	884,736
17	4,913	37	50,653	57	185,193	77	456,533	97	912,673
18	5,832	38	54,872	58	195,112	78	474,552	98	941,192
19	6,859	39	59,319	59	205,379	79	493,039	99	970,299
20	8,000	40	64,000	60	216,000	80	512,000	100	1,000,000

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CUBE ROOTS OF NUMBERS

The Table lists cube roots, to 2 decimal places, of numbers from 1 to 100.

Number	Cube Root	Number	Cube Root	Number	Cube Root	Number	Cube Root	Number	Cube Root
1	1.00	21	2.76	41	3.45	61	3.94	81	4.33
2	1.26	22	2.80	42	3.48	62	3.96	82	4.34
3	1.44	23	2.84	43	3.50	63	3.98	83	4.36
4	1.59	24	2.88	44	3.53	64	4.00	84	4.38
5	1.71	25	2.92	45	3.56	65	4.02	85	4.40
6	1.82	26	2.96	46	3.58	66	4.04	86	4.41
7	1.91	27	3.00	47	3.61	67	4.06	87	4.43
8	2.00	28	3.04	48	3.63	68	4.08	88	4.45
9	2.08	29	3.07	49	3.66	69	4.10	89	4.47
10	2.15	30	3.11	50	3.68	70	4.12	90	4.48
11	2.22	31	3.14	51	3.71	71	4.14	91	4.50
12	2.29	32	3.17	52	3.73	72	4.16	92	4.51
13	2.35	33	3.21	53	3.76	73	4.18	93	4.53
14	2.41	34	3.24	54	3.78	74	4.20	94	4.55
15	2.47	35	3.27	55	3.80	75	4.22	95	4.56
16	2.52	36	3.30	56	3.83	76	4.24	96	4.58
17	2.57	37	3.33	57	3.85	77	4.25	97	4.59
18	2.62	38	3.36	58	3.87	78	4.27	98	4.61
19	2.67	39	3.39	59	3.89	79	4.29	99	4.63
20	2.71	40	3.42	60	3.92	80	4.31	100	4.64

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R.M.S., PEAK AND AVERAGE VALUES

The Table lists, to three significant figures, peak values, twice peak values, and average values for sinusoidal alternating voltage or current from 1 to 1,000 r.m.s. units. The column giving twice peak values is included to cover voltage doubling circuits and peak inverse voltage ratings for capacitor input half-wave rectifier circuits; twice peak values are, also, equal to peak-to-peak values.

PK - PK

R.M.S.	Peak	2 x Peak	Average	R.M.S.	Peak	2 x Peak	Average
1	1.41	2.83	0.901	150	212	424	135
2	2.83	5.66	1.80	200	283	566	180
3	4.24	8.48	2.70	250	354	707	225
4	5.66	11.3	3.60	300	424	848	270
5	7.07	14.1	4.51	350	495	990	315
6	8.48	17.0	5.41	400	566	1,130	360
7	9.90	19.8	6.31	450	636	1,270	405
8	11.3	22.6	7.21	500	707	1,410	451
9	12.7	25.4	8.11	550	778	1,560	496
10	14.1	28.3	9.01	600	848	1,700	541
20	28.3	56.6	18.0	650	919	1,840	586
30	42.4	84.8	27.0	700	990	1,980	631
40	56.6	113	36.0	750	1,060	2,120	676
50	70.7	141	45.1	800	1,130	2,260	721
60	84.8	170	54.1	850	1,200	2,400	766
70	99.0	198	63.1	900	1,270	2,540	811
80	113	226	72.1	950	1,340	2,690	856
90	127	254	81.1	1,000	1,410	2,830	901
100	141	283	90.1				