

tables

Points

x-axis

X Position	Electric Potential	Err in X Position	Err in Electric Potential	E	dE
cm	V	cm	V	V/cm	V/cm
-13.0	4.99	0.1	0.01	0.145	0.009
-11.0	4.70	0.1	0.01	0.210	0.012
-9.0	4.28	0.1	0.01	2.140	0.107
-7.0	0.00	0.1	0.01	-2.385	0.119
-5.0	4.77	0.1	0.01	-0.575	0.029
-3.0	5.92	0.1	0.01	-0.490	0.025
-1.0	6.90	0.1	0.01	-0.460	0.047
0.0	7.36	0.1	0.01	-0.540	0.055
1.0	7.90	0.1	0.01	-0.470	0.024
3.0	8.84	0.1	0.01	-0.655	0.033
5.0	10.15	0.1	0.01	-2.600	0.130
7.0	15.35	0.1	0.01	2.275	0.114
9.0	10.80	0.1	0.01	0.300	0.016
11.0	10.20	0.1	0.01	0.095	0.007
13.0	10.01	0.1	0.01		

y-axis

Y Position	Electric Potential	Err in Y Position	Err in Electric Potential	E	dE
cm	V	cm	V	V/cm	V/cm
-10.0	7.44	0.1	0.01	0.000	0.002
-5.0	7.44	0.1	0.01	-0.002	0.002
0.0	7.45	0.1	0.01	0.022	0.002
5.0	7.34	0.1	0.01	0.018	0.002
10.0	7.25	0.1	0.01		

EP

X Position	Y Position	Electric Potential
cm	cm	V
0.00	0.00	7.36
1.00	0.00	7.90
1.50	-3.00	7.90
2.25	-6.00	7.90
3.00	-9.00	7.90
3.25	-12.00	7.91
3.00	0.00	8.84
4.50	-4.00	8.84
6.00	-7.50	8.84
8.25	-9.00	8.84
10.25	-11.00	8.84
5.00	0.00	10.15
7.00	-1.90	10.15
9.75	0.00	10.15
16.00	0.00	9.55
14.00	-3.00	9.55
11.00	-4.00	9.55
7.00	-3.25	9.55
5.00	-1.50	9.55
4.75	0.00	9.55

Plates

y-axis

Y Position	Electric Potential	Err in Y Position	Err in Electric Pot	E	dE
cm	V	cm	V	V/cm	V/cm
-12.0	13.55	0.1	0.01	-0.075	0.006
-10.0	13.70	0.1	0.01	-0.245	0.013
-8.0	14.19	0.1	0.01	0.873	0.022
-4.0	10.70	0.1	0.01	0.860	0.043
-2.0	8.98	0.1	0.01	0.770	0.039

Y Position	Electric Potential	Err in Y Position	Err in Electric Pot	E	dE
0.0	7.44	0.1	0.01	0.750	0.038
2.0	5.94	0.1	0.01	0.825	0.042
4.0	4.29	0.1	0.01	0.773	0.019
8.0	1.20	0.1	0.01	-0.230	0.013
10.0	1.66	0.1	0.01	-0.145	0.009
12.0	1.95	0.1	0.01		

x-axis

X Position	Electric Potential	Err in X Position	Err in Electric Pot	E	dE
cm	V	cm	V	V/cm	V/cm
-15.0	7.22	0.1	0.01	-0.012	0.002
-10.0	7.28	0.1	0.01	0.000	0.002
-5.0	7.28	0.1	0.01	-0.034	0.002
0.0	7.45	0.1	0.01	-0.008	0.002
5.0	7.49	0.1	0.01	-0.014	0.002
10.0	7.56	0.1	0.01	-0.012	0.002
15.0	7.62	0.1	0.01		

EP

X Position	Y Position	Electric Potential
cm	cm	V
0.00	-2.00	8.98
7.00	-2.00	8.98
10.00	-2.25	8.98
15.00	-2.75	8.98
0.00	-4.00	10.70
6.00	-4.25	10.70
10.00	-4.75	10.70
12.50	-6.00	10.70
16.00	-7.75	10.70
0.00	-12.00	13.55
2.50	-9.00	13.55

X Position	Y Position	Electric Potential
5.75	-7.50	13.55
0.00	-10.00	13.70
1.00	-8.25	13.70
3.75	-8.50	13.70

Cylinder

y-axis

Y Position	Electric Potential	Err in Y Position	Err in Electric Potential	E	dE
cm	V	cm	V	V/cm	V/cm
-5.5	12.39	0.1	0.01	0.860	0.173
-5.0	11.96	0.1	0.01	1.020	0.205
-4.5	11.45	0.1	0.01	0.860	0.173
-4.0	11.02	0.1	0.01	0.740	0.149
-3.5	10.65	0.1	0.01	0.980	0.197
-3.0	10.16	0.1	0.01	1.860	0.186
-2.0	8.30	0.1	0.01	0.380	0.079
-1.5	8.11	0.1	0.01	0.320	0.067
-1.0	7.95	0.1	0.01	0.300	0.063
-0.5	7.80	0.1	0.01	0.440	0.090
0.0	7.58	0.1	0.01	0.360	0.075
0.5	7.40	0.1	0.01	0.360	0.075
1.0	7.22	0.1	0.01	0.540	0.110
1.5	6.95	0.1	0.01	0.340	0.071
2.0	6.78	0.1	0.01	1.690	0.169
3.0	5.09	0.1	0.01	0.780	0.157
3.5	4.70	0.1	0.01	1.100	0.221
4.0	4.15	0.1	0.01	0.900	0.181
4.5	3.70	0.1	0.01	1.320	0.265
5.0	3.04	0.1	0.01	0.360	0.075
5.5	2.86	0.1	0.01		

x-axis

X Position	Y Position	Electric Potential
cm	cm	V
-1	1	7.25
-0.5	1.5	6.86
-1.5	1	7.21
-1	-1	8.22
-1.5	-1	8.26
-0.5	-1.5	8.49

EP

X Position	Y Position	Electric Potential
cm	cm	V
0	-3.5	10.65
6	-3.25	10.65
9	-4.5	10.65
16	-7.5	10.65
0	-5	11.96
5.5	-5.5	11.96
9.75	-7	11.96
11.5	-11	11.96
3	-1	8.56
8	-1.25	8.56
13	-1.5	8.56
2	-2	9.71
8	-3	9.71
16	-4.5	9.71