Distance	E-field (N/C)	1/Distance^2(m^-2)	E-field (N/C)
0.5	36	4	36
1	9.1	1	9.1
1.5	4.1	0.444444444	4.1
2	2.3	0.25	2.3
2.5	1.6	0.16	1.6
3	1	0.111111111	1
3.5	0.71	0.081632653	0.71
4	0.52	0.0625	0.52

Power law   f(x)= ax^b

The Coulomb Field

$y = 8.9934x + 0.0479$
$R^2 = 1$

E field magnitude (N/C) vs 1/Distance^2(m^2-2)
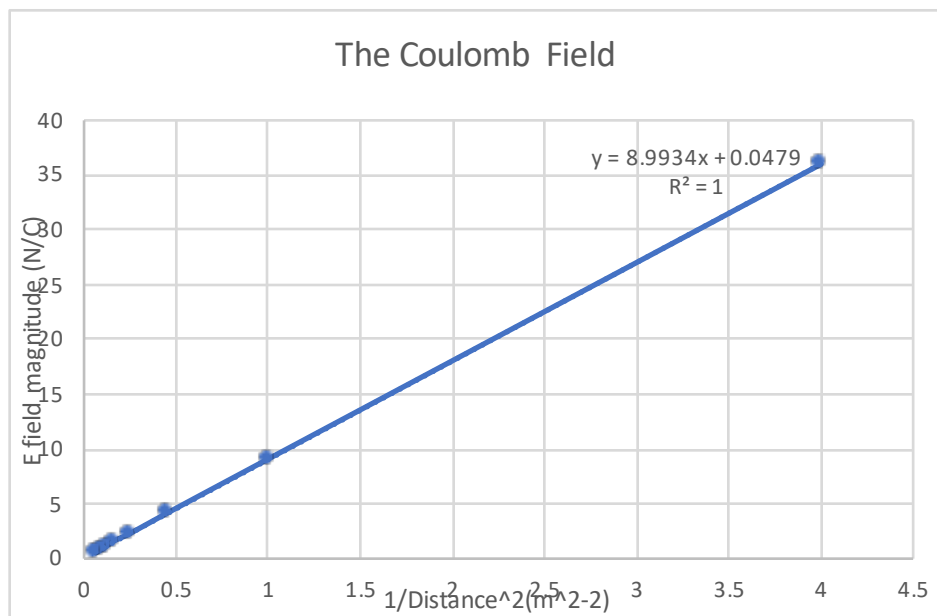
Charge (nC)	E-field (N/C)
1	2.3
2	4.32
3	6.75
4	9.2
5	11.4
6	14
7	15.2
8	17.6

The Coulomb Field

$y = 2.2077x + 0.1614$

$R^2 = 0.9965$

E-field magnetic (N/C) vs Charge(nC)