

Asynchronous Activity 1, Worksheet

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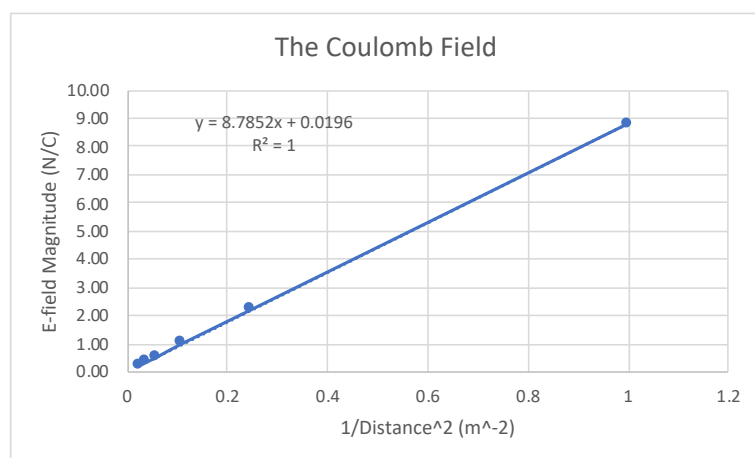
How to Submit this Worksheet

1. Download this PDF to your device.
2. Complete the procedure below.
3. Scan your document into a PDF using a Smartphone app, or simply a photo. One example app is SimpleScanner. Websites also exist to convert jpg to PDF format (e.g. <https://smallpdf.com/jpg-to-pdf>).
4. Upload your worksheet PDF to Moodle via the submission link.

The Procedure

Repeat the procedure performed in the tutorial videos on Moodle: Asynchronous Lesson 1, parts 1 and 2. However, choose your own distances in the \vec{E} vs. r calculation, and your own charge values in the \vec{E} vs. q calculation. Graph your results below, and label the axes of the graphs with the correct units.

Distance (m)	E-field (N/C)	1/Distance ² (m ⁻²)	E-field (N/C)
1	8.80	1	8.80
2	2.23	0.25	2.23
3	1.02	0.111111111	1.02
4	0.56	0.0625	0.56
5	0.36	0.04	0.36
6	0.25	0.027777778	0.25



Charge (nC)	E-field (N/C)
1	2.20
2	4.40
3	6.60
4	8.80
5	11.00
6	13.20

