

Asynchronous Activity 1, Worksheet

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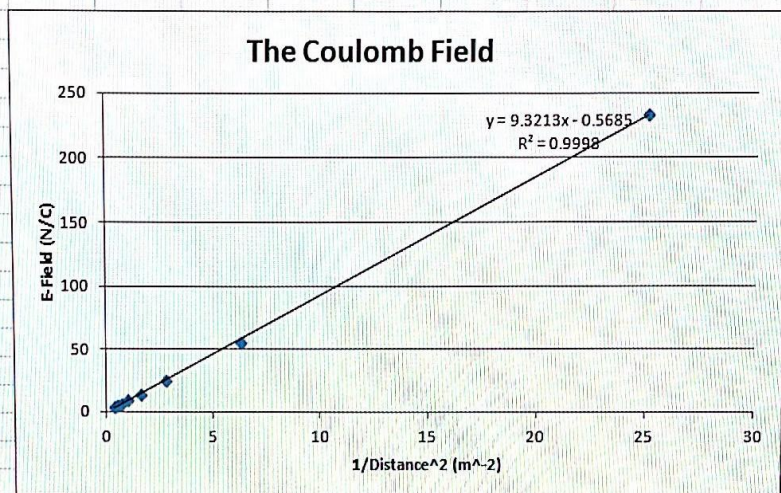
1 How to Submit this Worksheet

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.
4. Upload your worksheet PDF to Moodle via the submission link.

2 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)	1/Distance ² (m ⁻²)	E-Field (N/C)
0.2	25	233
0.4	6.25	55.3
0.6	2.777777778	25.5
0.8	1.5625	14
1	1	9.04
1.2	0.6944444444	6.37
1.4	0.510204082	4.65
1.6	0.390625	3.53



Charge (nC)	E-Field (N/C)
2	70.8
4	143
6	215
8	285
10	354
12	423
14	493
16	562

