

# 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 (e.g. <https://smallpdf.com/jpg-to-pdf>).
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  $E$  vs.  $r$  calculation, and your own charge values in the  $E$  vs.  $q$  calculation. Graph your results below, and label the axes of the graphs with the correct units.

Distance (m)	1/Distance <sup>2</sup>	E-Field
0.3	11.1111111	96.2
0.6	2.77777778	24.9
0.9	1.2345679	10.9
1.2	0.69444444	6.21
1.5	0.44444444	4
1.8	0.30864198	2.76
2.1	0.22675737	2.02
2.4	0.17361111	1.54

Charge (nC)	E-field (N/C)
3	6.69
6	13.4
9	20.1
12	26.8
15	33.5
18	40.3
21	47.1
24	53.9



