

* Hi professor, I only have an iPad for school & for some reason excel doesn't allow a line of best fit on the excel app for iPads. I did some research & found out it's a feature not yet offered for iPad users):

Kat Estrada
3/2/21

Asynchronous Activity 1, Worksheet

Prof. Jordan C. Hanson

February 26, 2021

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 \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)
0.5	35	4	35
1.5	4.01	0.444444444	4.01
2.5	1.44	0.16	1.44
3.5	0.73	0.081632653	0.73
4.5	0.45	0.049382716	0.45
5.5	0.3	0.033057851	0.3
6.5	0.21	0.023668639	0.21
7.5	0.16	0.017777778	0.16

Charge (nC)	E-field (N/C)
1	2.18
3	6.54
5	10.9
7	15.2
9	19.6
11	24
13	28.4
15	32.7

