Notes for ECE 26400 - Advanced C Programming

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These are lecture notes for fall 2023 ECE 26400 at Purdue. Modify, use, and distribute as you please.

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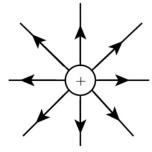
1.
$$\vec{F} = \frac{1}{4\pi\epsilon_0} \frac{q_1q_2}{r^2} \hat{r}$$

2.
$$\vec{E_1} = \frac{1}{4\pi\epsilon_0} \frac{q_1}{r^2} \hat{r}$$

Eletric field

We can represent eletric fields as lines emenating from a point charge. The greater the density of the lines, the greater the strength of the electric field.

Consider the relative strengths of the electric and gravitational fields.



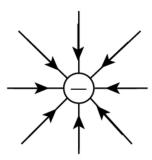


Figure 1: An eletric field coming from point charges. Notice how the densities of the lines vary with distance from the source.