

Electric Field and Potential Analysis

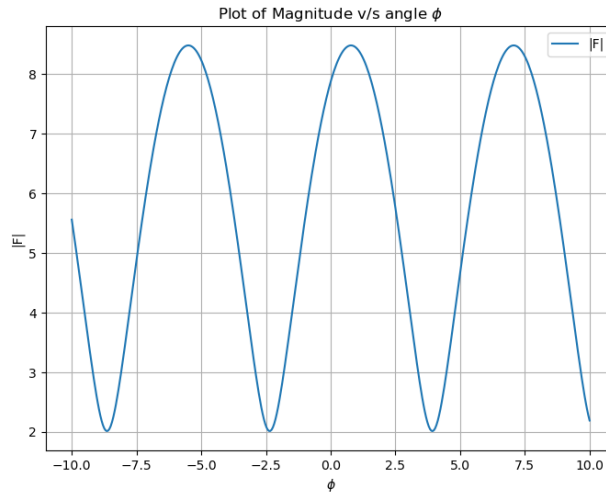
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1 Introduction

This report includes the simulated graphs for the questions 5(a), 5(b), 6(a) and 6(b).

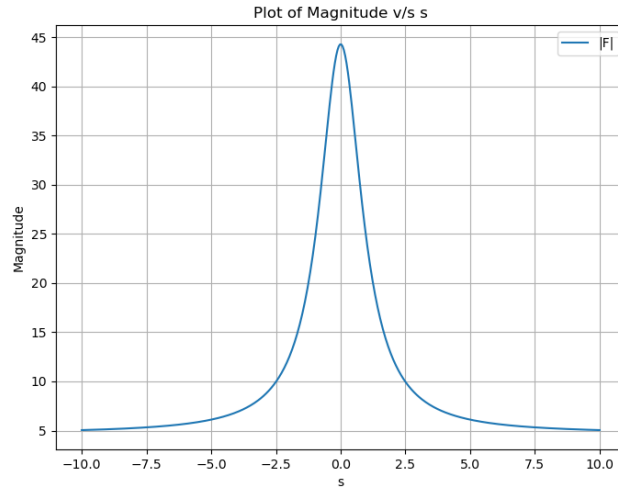
2 5(a)- Plot of Magnitude of \vec{F} against ϕ

The code used for this simulation can be found in "codes/5a.py"



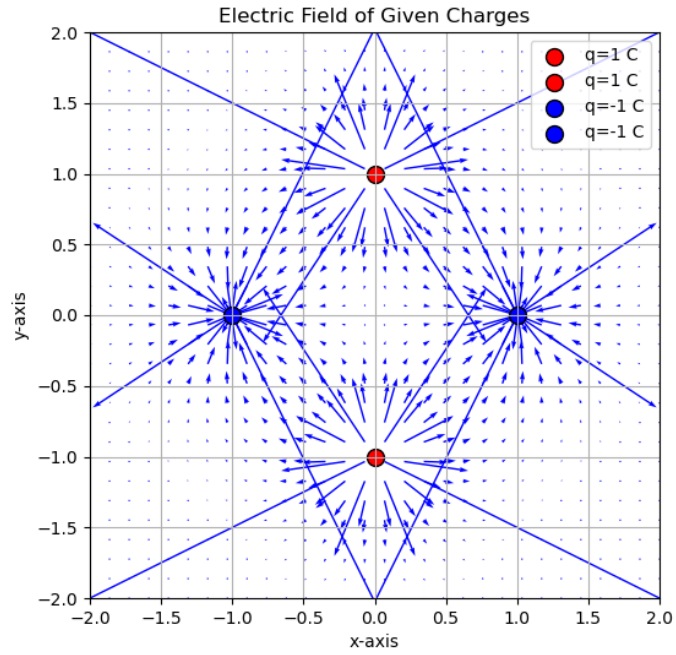
3 5(b)- Plot of Magnitude of \vec{F} against s

The code used for this simulation can be found in "codes/5b.py"



4 6(a)- Plot of Electric Field

The code used for this simulation can be found in "codes/6a.py"



5 6(b)- Plot of Electric Potential(along Z-axis)

The code used for this simulation can be found in "codes/6b.py"

