Pre-Lab Report
Static Electricity

The following concepts are related with this week’s lab. Briefly explain them.

1. Electric charges (and examples)

2. Electric force

3. Electric polarization (and examples)

4. Two point charges, separated by 1.5 cm have charge values of +2.0 and -4.0 µC, respectively. What is the value of the mutual force between them?

5. Vector \( \vec{A} \) is 3.0 units in length and points along the positive x-axis; vector \( \vec{B} \) is 4.0 units in length and points along a direction 150° from the positive x-axis. What is the magnitude and direction of the resultant when vectors \( \vec{A} \) and \( \vec{B} \) are added?