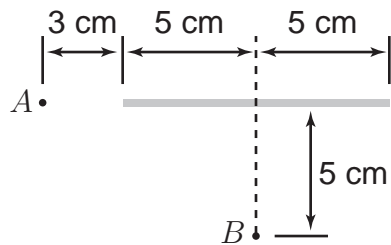**Physics 251**
Fall 1998
Homework #3
Due: Friday September 18, 1998

1. (From Purcell 1.24) A thin rod 10 cm long carries a total charge of 3×10^{-9} C uniformly distributed along its length. Find the strength of the electric field at each of the two points A and B located as shown in the diagram.

2. Tipler 19-29.

3. Tipler 19-48.

4. Tipler 20-38.

5. Tipler 20-62.