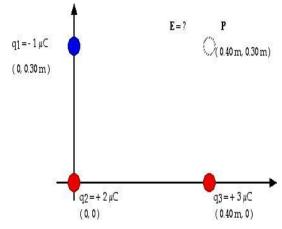
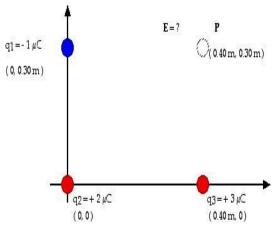
Homework #5

1- Charges q₁, q₂, and q₃ have the values and locations shown here. What is the electric field (magnitude <u>and</u> direction) at point P as shown here?



2- Charges q_1 , q_2 , and q_3 have the values and locations shown here. What is the electric potential at point P as shown here?



- 3- The capacitor circuit shown here is connected to a **12-volt** power supply.
 - (a) Calculate the **equivalent capacitance** of the circuit shown here.
 - (b) What **charge** will flow out of the battery?
 - (c) What **charge** is stored on the 2.0 μ F capacitor?
 - (d) What **voltage** is across the 2.0 **H**F capacitor?

