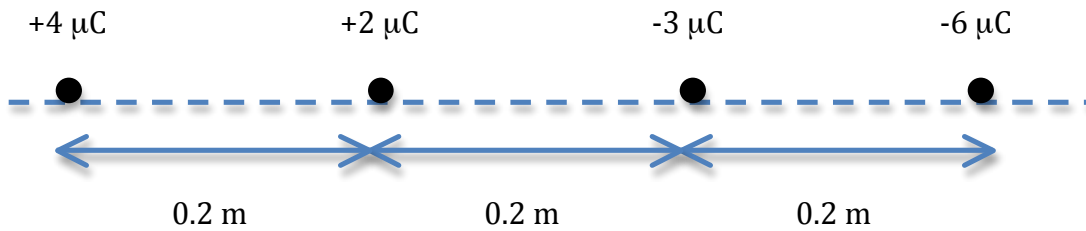
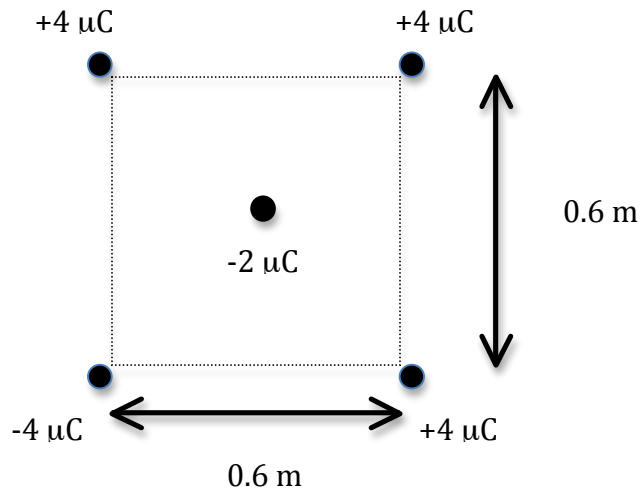


## Coulomb's Law and E Fields

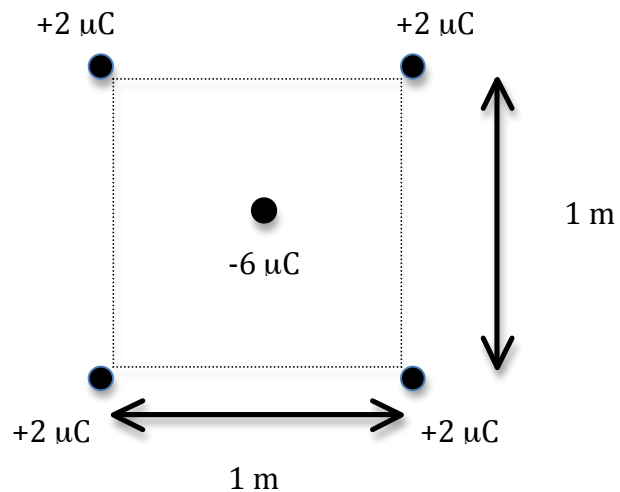
1. Find the net force and E field located at the  $-3\mu\text{C}$  position.



2. Find the net F on the  $-2\mu\text{C}$  charge and the E field at that position.



3. Find the net F on the  $-6\mu\text{C}$  charge and the E field at that position.



4. Two identical charges are 30 cm apart and experience a force of 0.85 N. Find the charge on each sphere.
5. A proton is in an E field of  $10,000\ \text{N/C}$  and is released from rest. Find its speed after traveling 2 cm.