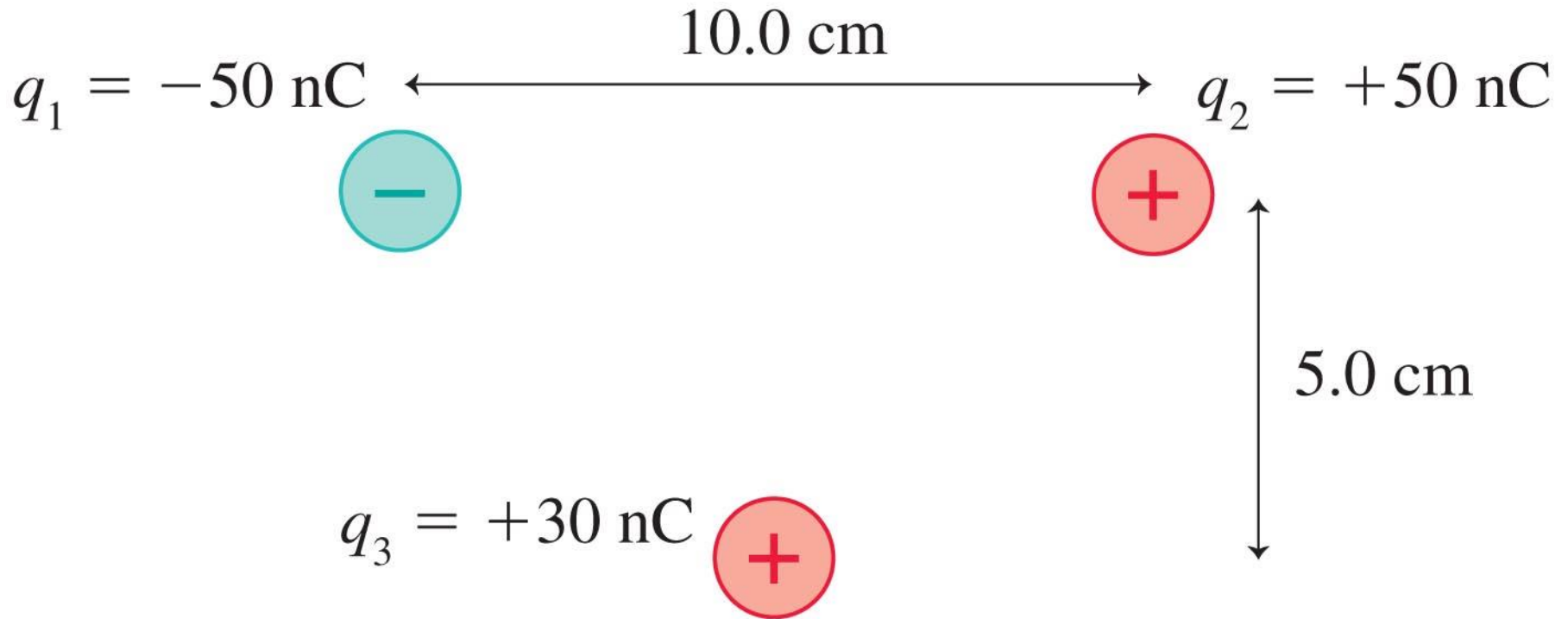


# Lecture 2: Coulomb's Law

- Example
- Practice

## Example: Adding electrical forces in two dimensions



## Procedure: electrical forces in two dimensions

1. Diagram. Draw force vectors.
2. Find magnitude for each force vector, using **Coulomb's Law**
3. Find the  $x$ - and  $y$ - components of each force
4. Add the  $x$ -components. Add the  $y$ -components
5. Check against the diagram.

(a)  $q_1$  is negative and  $q_3$  positive, so the force is attractive.

