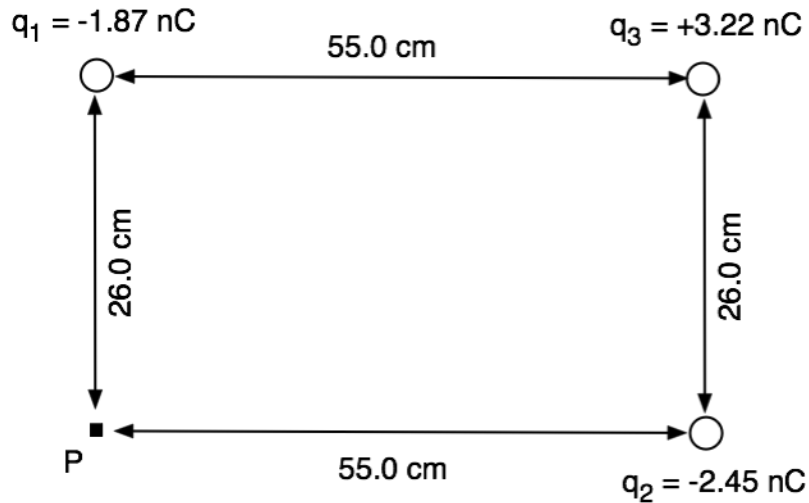


Quiz 19.2B

Three charges are arranged in the distribution shown below. Charges q_1 and q_3 are fixed in place and do not move. A person picks up charge q_2 and moves it to point P. Assume that q_2 starts and ends its motion at rest.



- What is the voltage at the original location of q_2 ?
- What is the voltage at the final location of q_2 ?
- How much work is done by electric force as q_2 moves to point P?
- How much work is done by the person who moves q_2 to point P?