

Report all numerical answers to 3 significant figures no matter what.

For the square above, q_1 = 2.60 μ C , q_2 = -4.90 μ C, and q_3 = -3.80 μ C .

- A) What is the Electric field vector located at point A? (Don't have to draw FBD)
- B) What is the Electric Potential at point A?
- C) Assume there is another point nearby (Point B) that has an Electric Potential of -400 kV. A single proton is going to start at point A and then it will end at point B.
 - i. Will this charge gain Kinetic energy and travel there naturally, or will it require Work to forcibly move it there?
 - ii. What amount of energy is transferred during this trip? (Could be a change in kinetic or could be Work)