PHYS 202 Electric Potential due to point charges Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Electric potential due to a point charge at a distance r:    
P17) The drawing shows four point charges. The value of *q* is 1.6 μC, and the distance *d* is 0.94 m. Find the total potential at the location *P*. Assume that the potential of a point charge is zero at infinity.

 

P21) Identical +3.31 μC charges are fixed to adjacent corners of a square. What charge (magnitude and algebraic sign) should be fixed to one of the empty corners, so that the total potential at the remaining empty corner is 0 V?

 