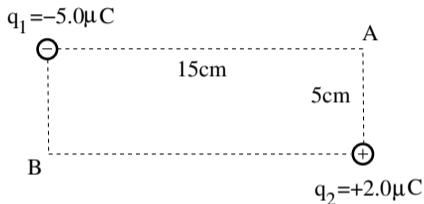


## Electric Potential and Potential Energy: Application (3)



Point charges  $q_1 = -5.0\mu\text{C}$  and  $q_2 = +2.0\mu\text{C}$  are positioned at two corners of a rectangle as shown.



- (a) Find the electric potential at the corners  $A$  and  $B$ .
- (b) Find the electric field at point  $B$ .
- (c) How much work is required to move a point charge  $q_3 = +3\mu\text{C}$  from  $B$  to  $A$ ?