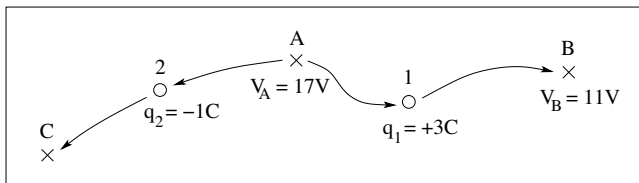


Electric Potential and Potential Energy: Application (7)



Consider a region of nonuniform electric field. Charged particles 1 and 2 start moving from rest at point A in opposite directions along the paths shown.



From the information given in the figure...

- (a) find the kinetic energy K_1 of particle 1 when it arrives at point B ,
- (b) find the electric potential V_C at point C if we know that particle 2 arrives there with kinetic energy $K_2 = 8J$.