



Two charged particles are released in different uniform fields. Ignore gravity.

- (a) Find the horizontal velocity components  $v_{Ex}$ ,  $v_{Bx}$  and the vertical velocity components  $v_{Ey}$ ,  $v_{By}$  at the instant each particle hits the wall.
- (b) Find the times  $t_E$ ,  $t_B$  it takes each particle to reach the wall.

