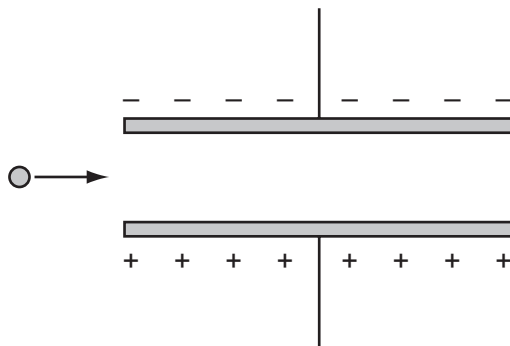


- 29** The diagram shows a charged particle as it approaches a pair of charged parallel plates in a vacuum.



Which row describes the horizontal and vertical components of its motion as it travels between the plates?

|          | horizontal component  | vertical component    |
|----------|-----------------------|-----------------------|
| <b>A</b> | constant acceleration | constant acceleration |
| <b>B</b> | constant acceleration | constant velocity     |
| <b>C</b> | constant velocity     | constant acceleration |
| <b>D</b> | constant velocity     | constant velocity     |

- 20** Two parallel plates, a distance 25 mm apart, have a potential difference between them of