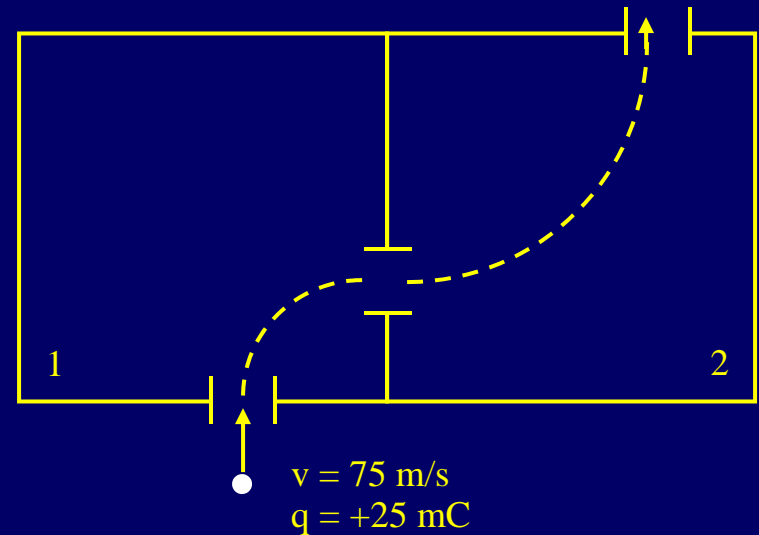# Preflight 8.6

Each chamber has a unique magnetic field. A positively charged particle enters chamber 1 with velocity $v_1 = 75$ m/s up, and follows the dashed trajectory.

v = 75 m/s
q = +25 mC

What is the speed of the particle when it leaves chamber 2?

1) $v_2 < v_1$

2) $v_2 = v_1$

3) $v_2 > v_1$