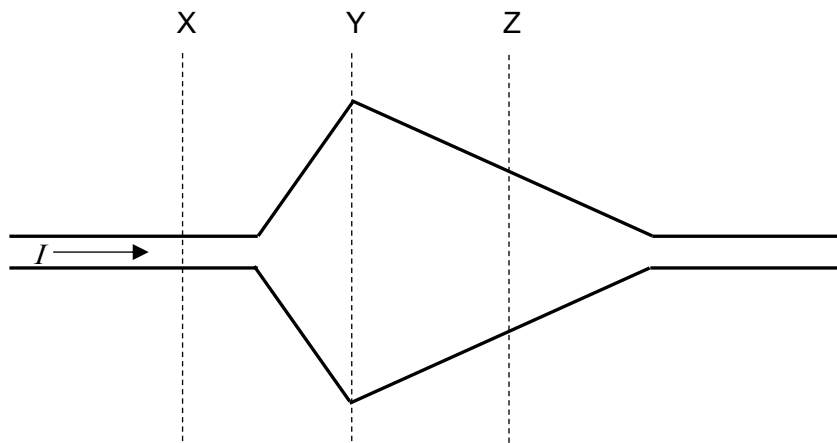


- 22** An electric current  $I$  flows through a flat metal specimen of uniform thickness and of the shape shown below.



Which of the following statements about the magnitude of the current  $I$  and drift velocity  $v$  at sections X, Y and Z is correct?

- A**  $I_X = I_Y = I_Z$  ;  $v_X > v_Z > v_Y$
- B**  $I_X > I_Z = I_Y$  ;  $v_X = v_Y = v_Z$
- C**  $I_X = I_Y = I_Z$  ;  $v_X = v_Y = v_Z$
- D**  $I_X > I_Z > I_Y$  ;  $v_X > v_Z > v_Y$