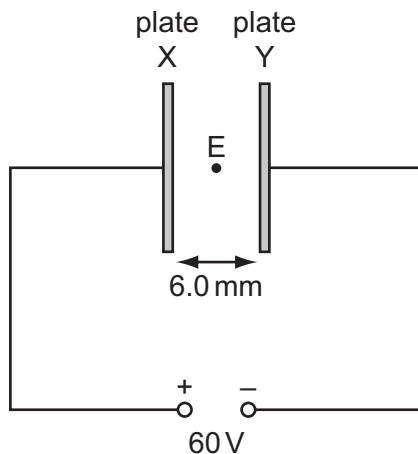


- 31** Two vertical conducting plates X and Y are positioned so that they are separated by a distance of 6.0 mm in air. A 60 V d.c. supply is connected as shown.



What is the electric field strength at E, a point midway between the plates?

- A** $1.0 \times 10^4 \text{ V m}^{-1}$ towards X
- B** $1.0 \times 10^4 \text{ V m}^{-1}$ towards Y
- C** $2.0 \times 10^4 \text{ V m}^{-1}$ towards X
- D** $2.0 \times 10^4 \text{ V m}^{-1}$ towards Y

- 32** Two parallel metal plates have a potential difference between them of 12 V. The distance