

Solutions

Each answer shows the steps, then the **result**.

2.1

- $F = qvB = (2.0 \times 10^{-6})(3.0 \times 10^4)(0.20) = 1.2 \times 10^{-2} \text{ N}$

2.2

- 90° (perpendicular)

2.3

- a circle

3.1 B

3.2 B

3.3

(a)

- $F = qvB = (1.6 \times 10^{-19})(5.0 \times 10^6)(0.30) = 2.4 \times 10^{-13} \text{ N}$

(b)

- a circular path