

## Chapter 29 Magnetic Field

- 2.** Determine the initial direction of the deflection of charged particles as they enter the magnetic fields shown in Figure P29.2.

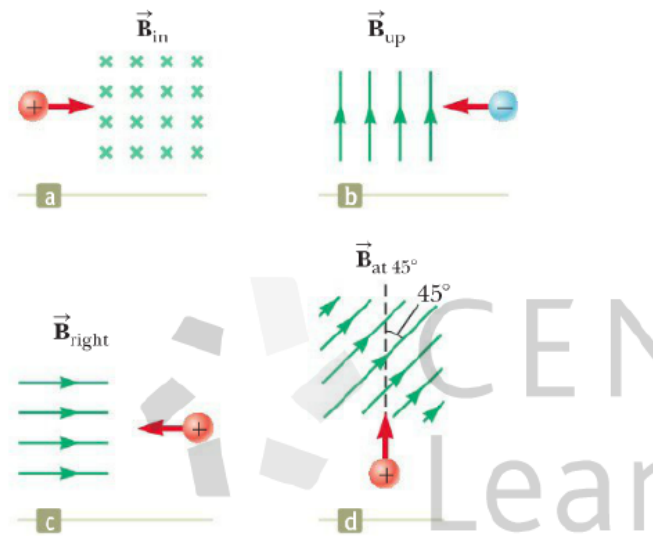


Figure P29.2

Answers: (a) Up. (b) Out of the page. (c) No deflection. (d) Into the page.

- 65. Review.** A 0.200-kg metal rod carrying a current of 10.0 A glides on two horizontal rails 0.500 m apart. If the coefficient of kinetic friction between the rod and rails is 0.100, what vertical magnetic field is required to keep the rod moving at a constant speed?

Answer: **65.** 39.2 mT