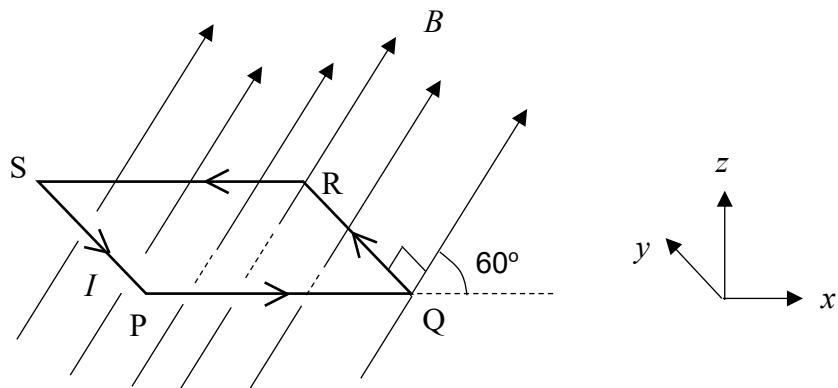
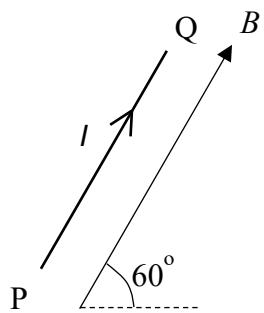
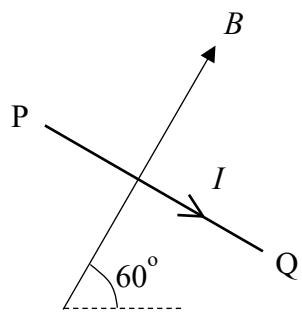
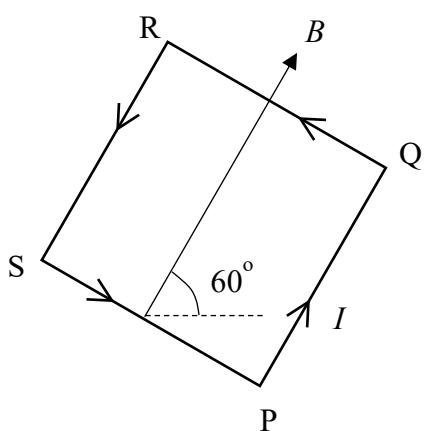


- 21** In a weightless environment (such as on board a spacecraft orbiting the Earth), a square coil is placed in a uniform magnetic field with its plane horizontal, so that the field lines make an angle of  $60^\circ$  with its sides PQ and RS while being perpendicular to sides QR and SP, as shown below. A current flows through the coil in the direction PQRS.



Which of the following diagrams shows the correct final orientation of the coil as seen along the  $y$ -axis? Assume that resistive forces (e.g., air resistance) are present to damp any oscillation.

**A****B****C****D**