

- 2** A tennis ball travelling at  $4.0 \text{ m s}^{-1}$  due east strikes a surface and bounces off at  $3.0 \text{ m s}^{-1}$  due north. The change in velocity of the tennis ball is
- A**  $1.0 \text{ m s}^{-1}$  at  $37^\circ$  east of north
  - B**  $1.0 \text{ m s}^{-1}$  at  $53^\circ$  west of south
  - C**  $5.0 \text{ m s}^{-1}$  at  $37^\circ$  east of south
  - D**  $5.0 \text{ m s}^{-1}$  at  $53^\circ$  west of north