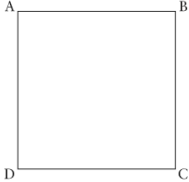


True/False

Indicate whether the statement is true or false.

- ___ 1. Length is a vector quantity.
- ___ 2. A true bearing of 190° may also be expressed as a vector bearing of $S10^\circ W$.
- ___ 3. If ABCD is a square with side lengths of 7 cm, $\overrightarrow{AB} = \overrightarrow{CD}$.



- ___ 4. To find the sum of two vectors that have their tails at a vertex, use a parallelogram. The resultant is one of the diagonals of the parallelogram.
- ___ 5. To subtract two vectors, simply add the opposite of the second vector.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ___ 6. Which of the following is a vector quantity?
- | | |
|---------|-----------|
| a. age | c. volume |
| b. time | d. weight |
- ___ 7. An aircraft is flying on a path heading $S22^\circ E$. The true bearing is
- | | |
|----------------|----------------|
| a. 68° | c. 220° |
| b. 158° | d. 322° |
- ___ 8. A true bearing of 250° may also be expressed as a vector bearing of
- | | |
|------------------|------------------|
| a. $N70^\circ E$ | c. $S70^\circ E$ |
| b. $N70^\circ W$ | d. $S70^\circ W$ |
- ___ 9. Jane walks from the math classroom to the cafeteria. At the same time, Norma walks from the cafeteria to the math classroom. The vectors representing their walks are
- equal in magnitude and opposite in direction
 - equal in magnitude and the same direction
 - unequal in magnitude and opposite in direction
 - unequal in magnitude and the same direction
- ___ 10. What conditions are necessary for two vectors to be considered equal?
- different magnitudes and same direction
 - different magnitudes and different directions
 - same magnitude and different directions
 - same magnitude and same direction

