Chapter 6 Section 2:

Addition and Subtraction of Vectors

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Chapter 6 Section 2

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a) First measure the length of the path.

Since the scale is 1 cm : 3 m, the actual distance is 23×3 or 69 m.

The displacement is represented by a vector from the start (tail) of the first vector to the end (head) of the last vector. This measures 5 cm in length. Thesefore, the actual displacement is 15 m to the right.

b) The distance and the displacement are different. The distance represents the total distance travelled, 69 m. The disofacement represents the straight line distance between the initial and final positions, 15 m. Also, the displacement, a vector quantity, has a direction implied while the distance has no direction since it is a scalar quantity.

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