

Question:

Physics

A particle moving with uniform speed

- 1 must have uniform velocity
- 2 cannot have uniform velocity
- 3 may have uniform velocity
- 4 will have no velocity

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Explanation:

When we say uniform speed, we are not mentioning anything about direction, the other component of velocity. So we don't know whether velocity is uniform or not. A particle moving with uniform speed may or may not have uniform velocity. In some other situations direction is mentioned like when it is said that particle is moving with uniform speed in straight line. In this situation we can say velocity is uniform.

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