

Answer on Question 51055, Physics, Mechanics | Kinematics | Dynamics

Question:

The following are examples of vector quantities except:

- (a) Displacement.
- (b) Velocity.
- (c) Acceleration.
- (d) Speed.

Answer:

By the definition, a scalar is a quantity that has magnitude and no direction, while a vector is a physical quantity that requires the specification of both direction and magnitude. So, we can see that displacement, velocity and acceleration is an examples of vector quantities. But the speed of an object is the magnitude of its velocity, and this is an example of scalar quantity. Thus, the correct answer is (d) – the following are examples of vector quantities except speed.

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