Name - _ _ _ _ _ _ _ _ _   Start time - _ _ : _ _   End time - _ _ : _ _

Define acceleration and provide an example of an object experiencing acceleration.

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Determine whether the statements are true or false.

a. Velocity is a vector quantity that includes both speed and direction.

b.   Negative acceleration implies that an object is slowing down.

c. Speed and velocity are always equal in magnitude.

d. Acceleration is the derivative of velocity with respect to time.

A car increases its speed from 20 m/s to 40 m/s in 5 seconds. Calculate the acceleration.

Acceleration = _____

Explain the key difference between speed and velocity.

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a b c d e f g h i j k l m n o p q r s t u v w x y z