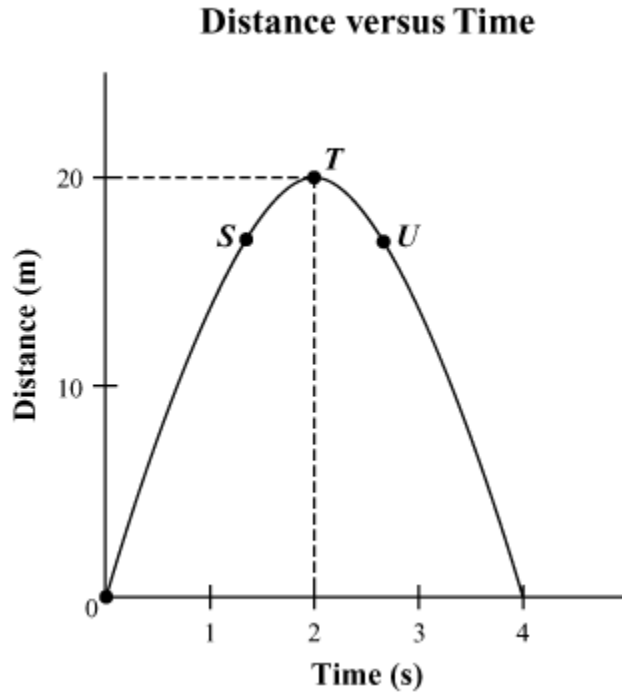


OPEN RESPONSE H, MOTION & FORCES

An object is moving along a straight path. The graph below shows the object's distance from the starting point during a certain time interval.



- Determine the average speed of the object for the time interval 0–2 s. Show your calculations and include units in your answer.
- Describe how the speed of the object is changing as it passes through point S. Explain your answer.
- Identify the point (S, T, or U) at which the velocity of the object is equal to zero. Explain your answer.
- Determine the distance moved and the displacement of the object for the time interval of 0–4 s. Explain your answer.