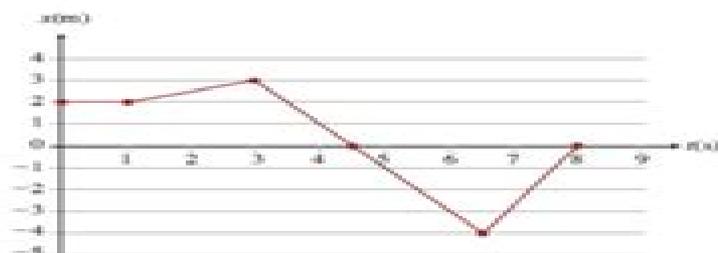


### Sample Questions Exam

- A light ray passes from water into air. Take the index of refraction of water  $n_{\text{water}} = 1.33$ .
  - What is, to the nearest degree, the maximum value the angle of refraction can have for an angle of incidence equal to the critical angle?
  - Calculate, to the nearest degree, the critical angle for the water-air boundary.
- A particle moves along the  $x$ -axis from  $x_1 = 2.0$  m to  $x_2 = 15$  m and then to  $x_3 = 27$  m. Calculate the total distance covered by the particle and its total displacement.
- Define average acceleration.
  - The speed of a car moving along the positive  $x$ -axis changes from 10 m/s to 25 m/s in 5.0 s. What is the average acceleration of the car?
- The graph below illustrates the motion of a hockey puck in 8 s.



- Using the  $x$ - $t$  graph, complete the following table.

$t$ (s)	0	0.5	1	2	3		6.5	8
$x$ (m)						0		

- What is the average velocity of the puck in the time interval [1 s, 3 s].

- A particle is initially found at 1.0 m to the right of the origin of an  $x$ -axis. Initially moving at 2.0 m/s, the particle accelerates at a rate of  $3.0$  m/s<sup>2</sup> for 4.0 s. What is, to the nearest m, the position of the particle?
- A man pulls a rope attached to a box with a force of 80 N making an angle of  $60^\circ$  with the upward vertical. Find the horizontal component and vertical component of the force.

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*Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons,2010

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