Sample Questions Exam

A light ray passes from water into air. Take the index of refraction of water n_{water} = 1.33.

- a. 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?
- b. Calculate, to the nearest degree, the critical angle for the water-air boundary.

2. 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.

3. a) Define average acceleration.

b) 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?

4. The graph below illustrates the motion of a hockey puck in 8 s.



a) Using the x-t graph, complete the following table.

£ (8)	0	0.5	1	2	3		6.5	- 8
or (mn)						000		

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

5. 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/s² for 4.0 s. What is, to the nearest m, the position of the particle?

6. A man pulls a rope attached to a box with a force of 80 N making an angle of 60° with the upward vertical. Find the horizontal component and vertical component of the force.

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KJ Lindholm-Leary

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