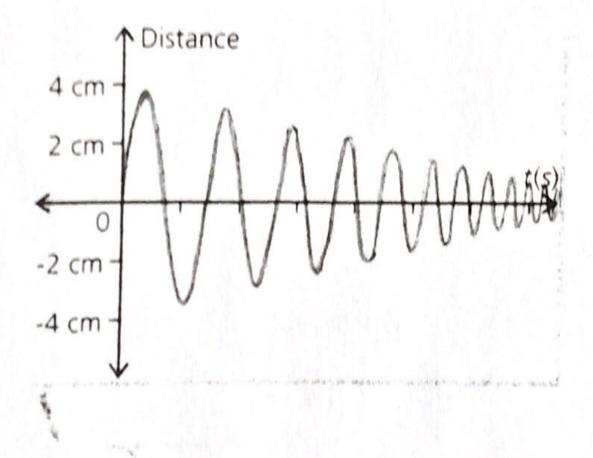
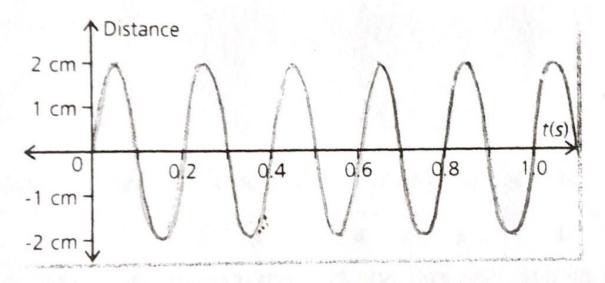
(a) tip of vibrating meter stick

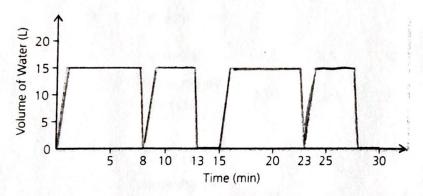


(b) movement of a piston in a combustion engine



Example 2

The automatic dishwasher in a school cafeteria runs constantly through lunch. The graph shows the amount of water used as a function of time.



- (a) Explain why the operation of the dishwasher is an example of a periodic function.
- (b) What is the length of the period? What does one complete cycle mean in the context of the question?
- (c) Extend the graph for one more complete cycle.
- (d) How much water is used if the dishwasher runs through eight complete cycles?