

**Question 2**

Fig. 1.1 shows a cricket ball as it comes into contact with a cricket bat.



Fig. 1.1

The cricket ball has a mass of 0.16 kg and it hits the bat with a speed of 25 m/s. After being in contact with the bat for 0.0013 s, the ball rebounds with a speed of 22 m/s in the direction exactly opposite to its original direction.

- (a) State the difference between *speed* and *velocity*. [1]
- (b) Calculate
- (i) the change in velocity of the cricket ball, [1]
  - (ii) the average acceleration of the ball whilst it is in contact with the bat, [2]
  - (iii) the average force exerted on the ball by the bat. [2]

[N10/P2/Q1]

**Solution**

(a) Speed has only a magnitude but no direction whereas velocity has a magnitude as well as a direction.

(b) (i) Change in velocity =  $v - u$

$$= (-22) - (+25) = -47 \text{ ms}^{-1}$$

(ii) Acceleration,  $a = \frac{v - u}{t}$

$$= \frac{-47}{0.0013} = -36153.8 \approx -3.6 \times 10^4 \text{ ms}^{-2}$$

(iii) Force,  $F = ma$

$$= 0.16 \times 36154 = 5784.6 \approx 5785 \text{ N}$$

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