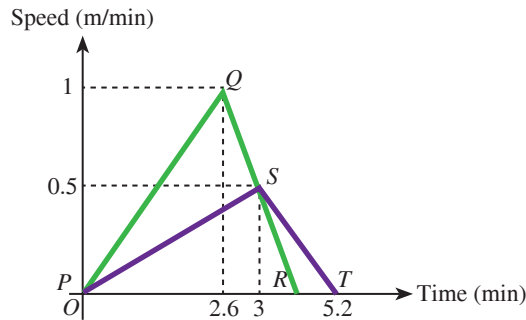


- (a) State the value of A and B .
- (b) Complete the graph for Syahmi's whole journey.
- (c) Calculate the average speed, in km/h, for the whole trip.



5. The diagram below shows the speed-time graph for the movement of two marbles from the opposite directions. The PQR graph represents the movement of the green marbles and the PST graphs represent the movement of the purple marbles. Both marbles are on the same path.



- (a) Calculate the acceleration of the green marbles within the first 2.6 minutes.
- (b) When will the purple marble stop moving?
- (c) What is the maximum speed of the green marbles?
- (d) Calculate the time in which the two marbles collide.



6. The distance between Tanjung Malim and Sungai Petani is x km. A car was driven from Tanjung Malim to Sungai Petani at an average speed of 90 km/h. The return journey when the car was driven at an average speed of 105 km/h took 30 minutes less. Calculate the value of x .

CHAPTER SUMMARY



Speed and Acceleration

Speed

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Average Speed} = \frac{\text{Total distance}}{\text{Total time taken}}$$

Acceleration

Acceleration is the rate of change of speed with time, in a linear motion.