

(1) What is the difference between speed and velocity?

(2) As a roller coaster car starts down a slope, its speed is 4 m/s. But 3 seconds later, at the bottom, its speed is 22 m/s. Answer the following questions:

- (a) What is the initial speed of the roller coaster car?

- (b) What is the final speed of the roller coaster car?

- (c) How much time did the car spend coming down the slope?

- (d) What was the acceleration of the car?