

$v =$ _____

Example:

What is the speed of a train that travels 480 km in 8.0 h?

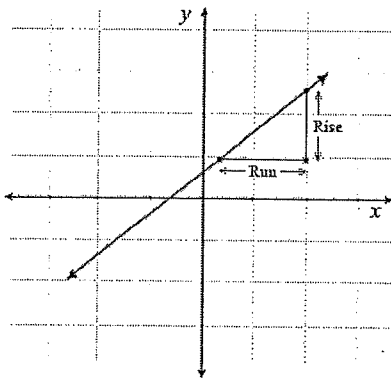
How fast is an airplane moving when it travels 580 m in 2.50s?

An ant moves 29.4 mm in 72.0 s. How fast is it moving?

Quick review of graphing:

$y = mx + b$

where $m =$ slope and $b =$ ~~y~~-intercept

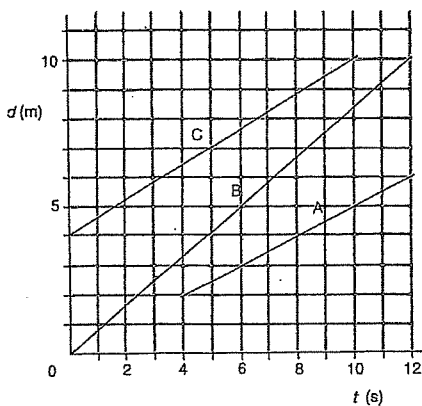


If we call x time and we call y distance then slope, $m = \frac{y_2 - y_1}{x_2 - x_1} =$ _____ =

speed is equal to _____

$$v = \frac{d_2 - d_1}{t_2 - t_1} = \frac{\Delta d}{\Delta t}$$

What, according to the graph, is the speed of:

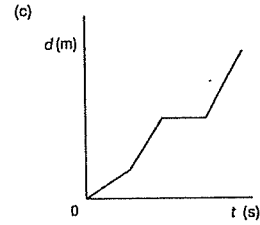
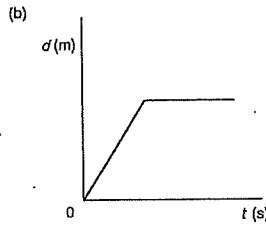
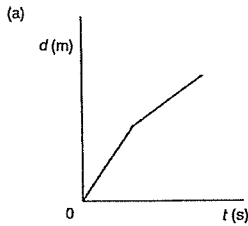


- a. runner A (0.50 m/s)
- b. runner B (0.83 m/s)
- c. runner C (0.60 m/s)

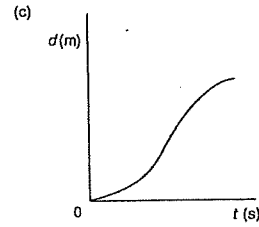
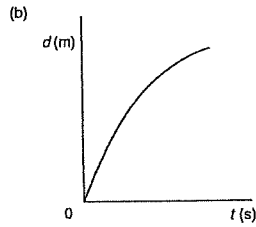
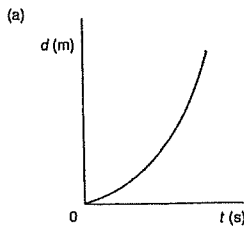
1. How far will a plane get flying at 230 m/s for 10.0 minutes? (1.38×10^5 m)

2. How long will it take a boy on a bicycle moving at 13.0 m/s to go 195 m? (15.0 s)

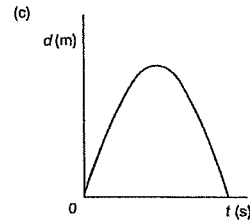
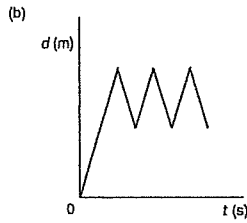
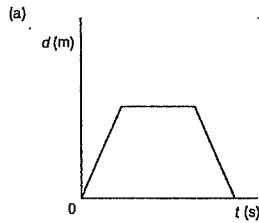
3. Describe briefly the kind of motion that is taking place in each of the situations represented by these distance-time graphs.



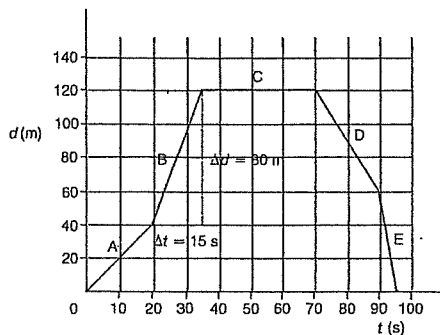
4. Describe briefly the motions represented by each of these graphs. If the speed is changing state whether it is increasing or decreasing.



5. Describe the motion represented by each of these distance-time graphs.



6. Examine carefully the following distance-time graph. Find the velocity of the object in each lettered section.



	A	B	C	D	E
Δd (m)					
Δt (s)					
v (m/s)					