

Exercise 2015-8EI-00001(1)

(1) Draw a Cartesian plane and represent the following points on the plane. Join the points.

A(-2 ; 5) ; B(0 ; 1) ; C(1 ; 2) and D(2 ; 5) (Use the graph paper.)

(2) Complete the tables and represent the point on a Cartesian plane:

Join the points. (Use the graph paper.)

(a) $y = x - 1$

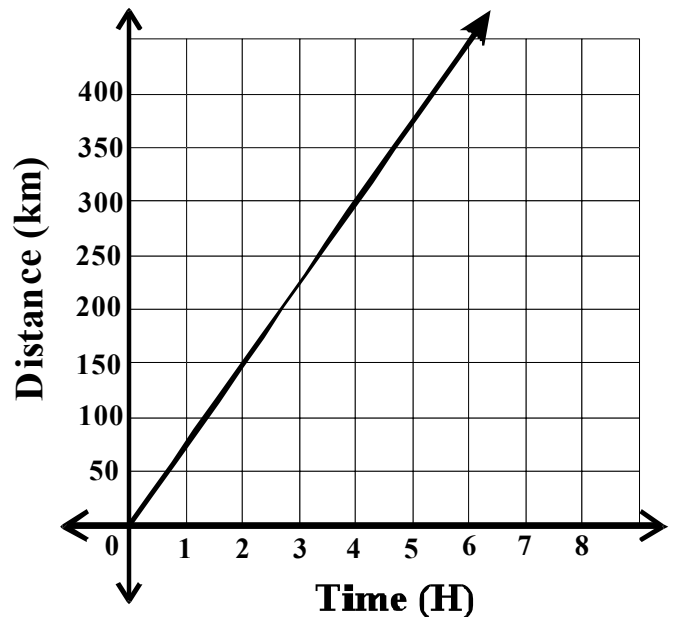
x	-1	0	1	2	3
y					

(b) $y = \frac{x}{2} + 2$

x	-4	-2	0	2	4	6
y						

(3) The graph shows the distance travelled in km by a motorist after a certain number of hours.

- (a) How many km have been travelled in 3 hours?
- (b) How many hours will it take to travel a distance of 75 km?
- (c) Calculate the average speed of the motorist.
- (d) Predict the distance travelled by the motorist in 12 hours if the average speed is maintained.
- (e) Does the graph show an increasing or decreasing tendency?



(4) The following pairs of coordinates represent the same points on the Cartesian plane. Is the statements true or false?

- (a) P(3 ; 4) and Q(4 ; 3)
- (b) A(5 ; 1) and B($\frac{10}{2}$; 1)
- (c) C(-7 ; 8) and (7 ; -8)
- (d) (0 ; 0) and the origin

