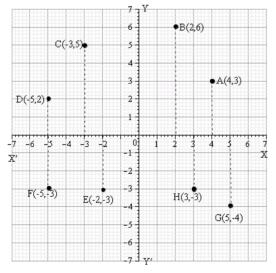


Q1.

Answer:

Let X'OX and YOY' be the coordinate axes.



\cap	\sim
Q	Ζ.

(i) On the x-axis, take 4 units to the right of the y axis; and then on the y-axis, take 3 units above the x - axisThus, we obtain the point A(4,3)(ii) On the x – axis, take 2 units to the right of the y – axis; and then on the y – axis, take 6 units above the x - axis. Thus, we obtain the point B(2,6)(iii) On the x - axis, take 3 units to the left of the y - axis; and then on the y - axis, take 5 units above the x - axis. Thus, we obtain the point C(-3,5)(iv) On the x – axis, take 5 units to the left of the y – axis; and then on the y – axis, take 2 units above the x - axis. Thus, we obtain the point D(-5,2)(v) On the x - axis, take 2 units to the left of the y - axis; and then on the y - axis, take 3 units below the x - axis. Thus, we obtain the point E(-2, -3)(vi) On the x - axis, take 5 units to the left of the y - axis; and then on the y - axis, take 3 units below the x - axis. Thus, we obtain the point F(-5, -3)(vii) On the x - axis, take 5 units to the right of the y - axis; and then on the y - axis, take 4 units below the x - axis. Thus, we obtain the point G(5, -4)(viii) On the x - axis, take 3 units to the right of the y - axis; and then on the y - axis, take 3 units below the x - axis. Thus, we obtain the point H(3, -3)

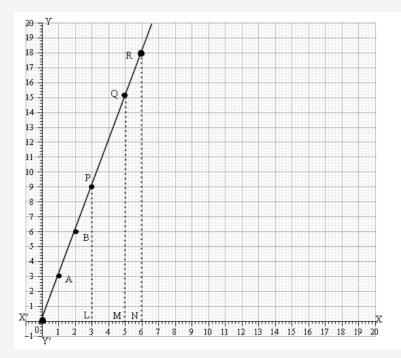
Q3.

Answer:

(a) The given function is y = 3x. For some different values of x, the corresponding values of y are given below:

x	0	1	2
У	0	3	6

On a graph paper, plot the points O(0,0), A(1,3) and B(2,6). Join them successively to obtain the required graph.



(b)

Reading off from the graph (i) On the x-axis, take the point L at x = 3. Draw $LP \perp x$ -axis, meeting the graph at P. Clearly, PL = 9 units $\therefore x = 3 \Rightarrow y = 9$ (ii) On the x-axis, take the point M at x = 5. Draw $MQ \perp x$ -axis, meeting the graph at Q. Clearly, QM = 15 units $\therefore x = 5 \Rightarrow y = 15$ (iii) On the x-axis, take the point N at x = 6. Draw $RN \perp x$ -axis, meeting the graph at R. Clearly, RN = 18 units $\therefore x = 6 \Rightarrow y = 18$

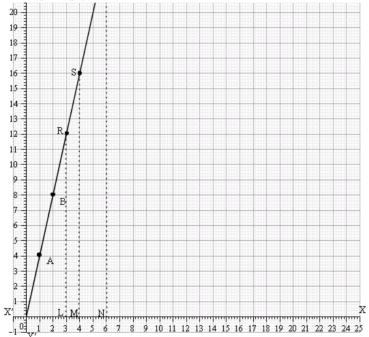
Q2.

Answer:

(a) The given function is P = 4x. For some different values of x, the corresponding values of P are given below:

x	0	1	2
P	0	4	8

On a graph paper, plot the points O(0,0), A(1,4) and B(2,8). Join them successively to obtain the required graph.



(b)
Reading off from the graph
(i) On the x - axis, take the point L at x = 3. Draw LR ⊥ x - axis, meeting the graph at R.
Clearly, RL = 12 units
∴ x = 3 ⇒ P = 12
(ii) On the x - axis, take the point M at x = 4. Draw MS ⊥ x - axis, meeting the graph at S.
Clearly, SM = 16 units
∴ x = 4 ⇒ P = 16
(iii) On the x - axis, take the point N at x = 6. Draw NT ⊥ x - axis, meeting the graph at T.
Clearly, TN = 24 units
∴ x = 6 ⇒ P = 24

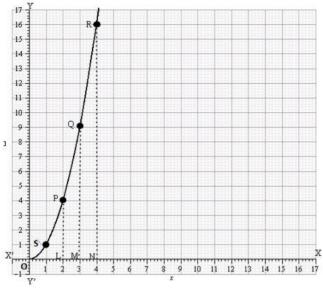
Q3.

Answer:

(a) The given function is $A = x^2$. For some different values of x, the corresponding values of A are given below:

x	0	1	2
А	0	1	4

On a graph paper, plot the points O(0,0), S(1,1) and P(2,4). Join them successively to obtain the required graph.



(b)

Reading off from the graph

(i) On the x - axis, take the point L at x = 2. Draw LP ⊥ x - axis, meeting the graph at P. Clearly, PL = 4 units
∴ x = 2 ⇒ A = 4
(ii) On the x - axis, take the point M at x = 3. Draw MQ ⊥ x - axis, meeting the graph at Q. Clearly, QM = 9 units
∴ x = 3 ⇒ A = 9
(iii) On the x - axis, take the point N at x = 4. Draw RN ⊥ x - axis, meeting the graph at R. Clearly, RN = 16 units
∴ x = 4 ⇒ A = 16

Graphs RS Aggarwal Class 8 Solutions Ex 25C

Q1.

Answer:

(a)

Since the signs of coordinates are (+,+), the point P(3,6) lies in the I quadrant.

Q2.

Answer:

(c) IIISince the signs of coordinates are (-, -), the point (-7, -1) lies in the III quadrant.

Q3.

Answer:

(d) IVSince the signs of the coordinates are (+, -), the point A(2, -3) lies in the IV quadrant

Q4.

Answer:

(b) IIS ince the signs of coordinates are (-, +), the point Q(-4, 1) lies in the II quadrant.

Q5.

Answer:

(c) y - axisThe abscissa of a point is its distance from the y - axis.

Q6.

Answer:

(d) a line parallel to the x-axis The graph of y = a is a line parallel to the x-axis.

Q7.

Answer:

(a) x = 0 The equation representing the y - axis is x = 0.