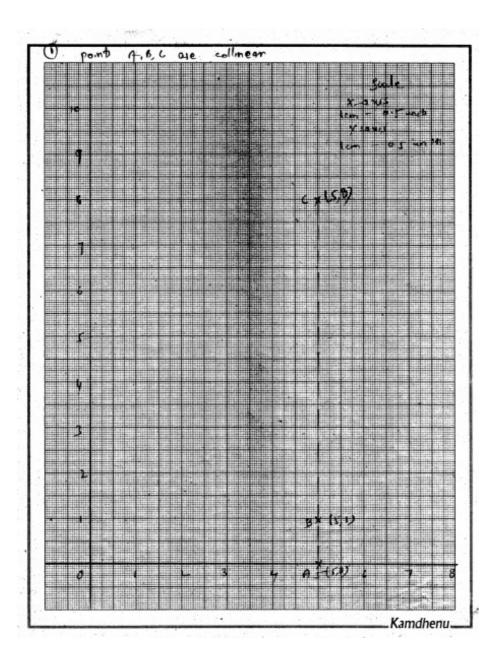
Introduction To Graphs Ex-27.1

Introduction to Graphs Euraite 31.1 O , Take a point o in the graph paper & draw horizontal & vertical line ox & or respectively. - Let us choose that on both amen len represents 0-5 units. - In order to plat A we need to start from migno & move 10 cm along ox, Hence point A(50) is plotted. - an order to plot B we need to start from origin o & move 10 cm along ox. Ether from there more 2 cm along 07. Hence we get point BCID. - for point c , start from origin & more com along ox E then from there move 82 16 cm along or . Hence point ((50) is plotted. - 15-rom the graph we can conclude that points A, B, C are collinger.



(3)

- Palex a point o on the graph paper Edraw horizontal & votical times ox & oy.

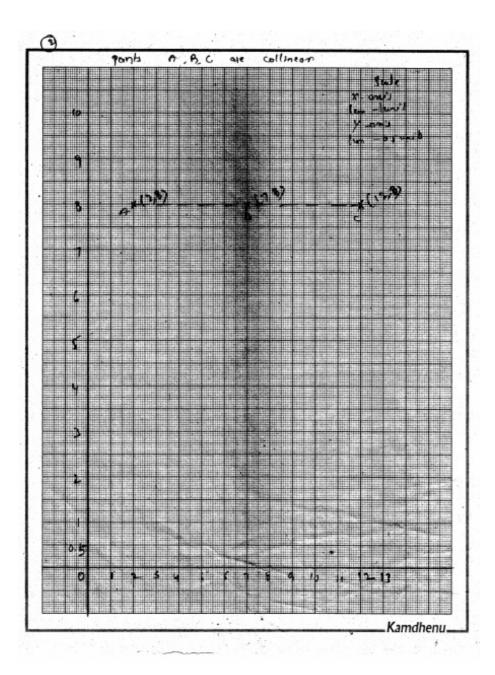
- let us choose on x-axis lan represents. first & on V-anis (un represents 0.5 works.

- In order to plot point A from 'O' more Lon along x-anis then from there more 16 cm along y-anis. Thus the joint A (2.8) is platted.

- For point B, from o' move Tem along N-encis & then from there move item along Y-anis. Thus B(7.8, 3 plotted

- For point C, from o' more 12 cm of along OX & then from there move 16 on along 04. Thus c (12,8) is platted.

- From the graph we can see that points A.B. c are collinear of parallel to X-ansis.



Take a point o' on a graph & draw two lines ax & Oy from o' & both perpendicular.

Take the scale along training as lon = or unit & along y-anis as lon = or unit (1) In order to plot A, more from o' more 2 in along ax & then from there move 8 cm along 0%. Hence point A (1,4) is plotted.

Ox & then from there move 6 cm along oy.

Hence point B(1,3) & plotted.

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For plotting C, from o' more zeralong ox & from there move 4 cm along oy.

Ox & from there move 4 cm along oy.

Ox & from there move 4 cm along oy.

Ox & from there move 2 in along oy.

Ox & from there move 2 in along oy.

Ox & from there move 2 in along oy.

(i) In order to plot P, at from 'o' more ucm along ox & then from there more 8 in along oy. Hence point P (2,4) is plotted.

To plot of from o' move 4cm along 0x & then from there move 6cm along 0%. Hence point of (2,3) is plotted.

-> To plat R, from 'O' more ham along 01 & then from there more 4 cm along 0%.

- To plot S. from or more 4cm along 0x. E then from there more 2cm along 0x.
Hence point S (e, r) is plotted.

- Hence points P. B.R.s are collinear. & garallel to Y-anis.

Gen along Ox & then from there move ben along oy, thene point X (3,3) is plotted.

To plot Y, from o' move Burn along ox & then from there move ben along ox.

To plot Y, from o' move burn along ox & then from there move ben along ox.

Ox. & then from there move ben along ox.

Oy. Hence point y(4,3) is plotted.

- As points & (1,3), O(2,3) an plotted,
therefore B, Q, x, y are plotted.
- points B, Q, x, y are plotted. E are collinears.

(in) In order to plot point T, from 0' move 6cm along 0x & from there move 8cm along 0y. Hence point T(3,4) is plotted.

along of then from there more 8cm along of there point U (44) is plotted.

A, P, T, U are plotted. Points are collinear.

-0X(194) px (0-19) [(0.19) [(0.19) 8 x (1/5) gr (3/2) x (3/3) x (4/5)

Given in graph, the scale is given as along ax com = curit & along by lom = curit.

- Point A :3 at for form plotted when at a distance of curit from ox & curit from by. Hence the coordinates A(1)1)

- point B 13 at a distance of luvil from

b' along OX & the wits from 'o' along

OY. Hence the coordinates are B(1,4)

- point C 15 at a distance of Leunits from

b' along OX & Gunits at from 'o' along OY.

- Point O 13 at a distance of the writs from

'o' along OX & 3 units from 'o' along OY.

Hence everdinates are B(5,3).

- The points an A(1,1), B(1,14), C(4,6), D(5,3).

Gover in graph the scale along tomis

is lan = 10 with with anit 10 as the

starting number & along y-anis lan = counts.

Point 'P' is at a distance of counts

from '0' along ox & at a distance of To

units from '0' along oy. Hence P(10,70)

- Point 'P' is at a distance of 12 cenits

from '0' along ox & at a distance of 12 cenits

from '0' along ox & at a distance of

80 with from '0' along oy. Hence Q(12,80)

- Point R is at a distance of 16 enito from

o' along ox & at a distance of 100 units

from 'O' along oy'. Hence R (16, 100)

- Point S is at a distance of 20 units

from 'O' along on 8 at a distance of 100 units

from 'O' along on 8 at a distance of 100 units

from 'O' along oy. Hence S (20, 120)

The points are P(10, 70), P(12,80), R(16, 100)

s (20, 120).

- Grown in graph, the scale along or is lem = lunit.

- Point x is at a distance of 2 units from "O" along o y & lies on y onis. Hence

- Point y is at a distance of Lunits from '6' along ox & lies on at a distance of Lunits from '0' along oy. Hence y(2.2).

- Point ? is at. a distance of 2 units from to along ox & lies on x-ans. Hence x(20)

- Point A is at a distance of Herrits from '0' along ox & at a distance of 5 units from '0' along oy. Hence A(45).

- Point B is at a distance of Tunits from O' along ox E at a distance of Sunits from O' along ox. Hence B(7,5).

- Point c is at a distance of 6 units from or along ox & at a distance of 3 units from or along ox. Hence C (6.3).

- Point D is at a distance of Swits from O along ox & at a distance of Swrits from from O' along OV. Hence D(3,3).

- Point P is at a distance of Tunits from o' along on & at a distance of Eunits from o' along os. Hence P(7,49.

- Points Q is at a distance of quits from or along ox & at a distance. Of 5 units from or along oy. Hence Q (9.5)

- Point R is at a distance of quaits from or along ox 6 at a distance of 3 units from o' along oy. Hence & B(93)

- Points x, x, 7 E, o' form a square when joined.

- Points A, B, C, O form a parallelogram.

- Points P, O, R form a triagle.

- (i) Statement is true because when a point whose M-coordinate is zero is at a distance of a units from 0° along ox. Therefore it lies on 1-0405.
- in Statement is true because when a point whose y-coordinate is zero. is at a distance of zero units from o along on Hence it
- cannot be necessarily be (0,0) always. It takes can take any coordinate.
- (iv) The statement is true of become when these points are jointed form a line which passes through origin.