

Mathematics

(www.tiwariacademy.net)

(Chapter – 4) (Linear Equations in two Variables)(Exemplar Problems)
(Class – IX)

Exercise 4.2

Write whether the following statements are True or False? Justify your answers:

Question 5:

The coordinates of points in the table:

x	0	1	2	3	4
y	2	3	4	-5	6

represent some of the solutions of the equation $x - y + 2 = 0$.

Answer 5:

False

Justification:

The given equation is $x - y + 2 = 0$.

At the point (0, 2)

LHS

$$= x - y + 2$$

$$= 0 - 2 + 2$$

$$= 0$$

= RHS

LHS = RHS

At the point (1, 3)

LHS

$$= x - y + 2$$

$$= 1 - 3 + 2$$

$$= 0$$

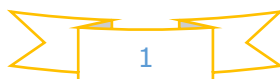
= RHS

LHS = RHS



[Putting $x = 0$ and $y = 2$]

[Putting $x = 1$ and $y = 3$]



Mathematics

(www.tiwariacademy.net)

(Chapter – 4) (Linear Equations in two Variables)(Exemplar Problems)
(Class – IX)

At the point (2, 4)

LHS

$$= x - y + 2$$

$$= 2 - 4 + 2$$

[Putting $x = 2$ and $y = 4$]

$$= 0$$

= RHS

LHS = RHS

At the point (3, - 5)

LHS

$$= x - y + 2$$

$$= 3 - (-5) + 2$$

[Putting $x = 3$ and $y = -5$]

$$= 10$$

≠ RHS

LHS ≠ RHS



At the point (4, 6)

LHS

$$= x - y + 2$$

$$= 4 - 6 + 2$$

[Putting $x = 4$ and $y = 6$]

$$= 0$$

= RHS

LHS = RHS

Since, (3, - 5) does not lie on the line, so the points are not linear.

