



Pair of Linear Equations in Two variables Ex 3.1 Q1

Answer :

Let no. of ride is x and no. of Hoopla is y . He paid Rs 20 for x ride and y for Hoopla.

The cost of ride is Rs 3 and cost of Hoopla is Rs 4. then $3x + 4y = 20$

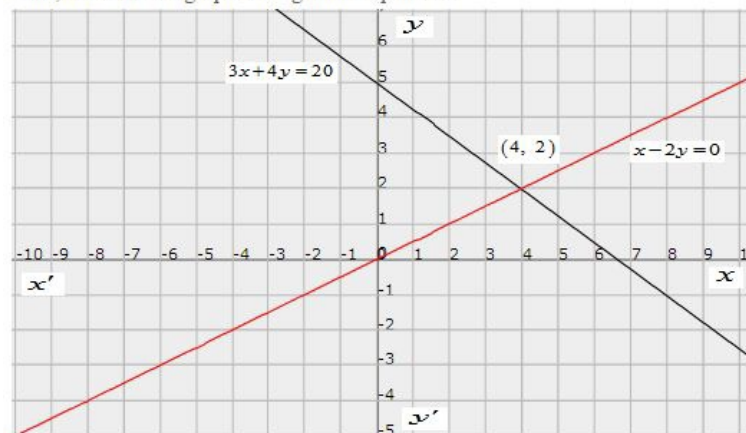
The number of Hoopla is the half number of ride, then

$$\Rightarrow y = \frac{1}{2}x \Rightarrow x - 2y = 0$$

$$3x + 4y = 20$$

Hence algebraic equations are $3x + 4y = 20$ and $x - 2y = 0$

Now, we draw the graph for algebraic equations.



Pair of Linear Equations in Two variables Ex 3.1 Q2

Answer :

Let age of Aftab is x years and age of his daughter is y years. 7 Years ago his age was 7 times older as her daughter was. Then

$$\Rightarrow y - 7 = 7(x - 7)$$

$$\Rightarrow y - 7 = 7x - 49$$

$$\Rightarrow y - 7x + 42 = 0 \quad \text{.....(1)}$$

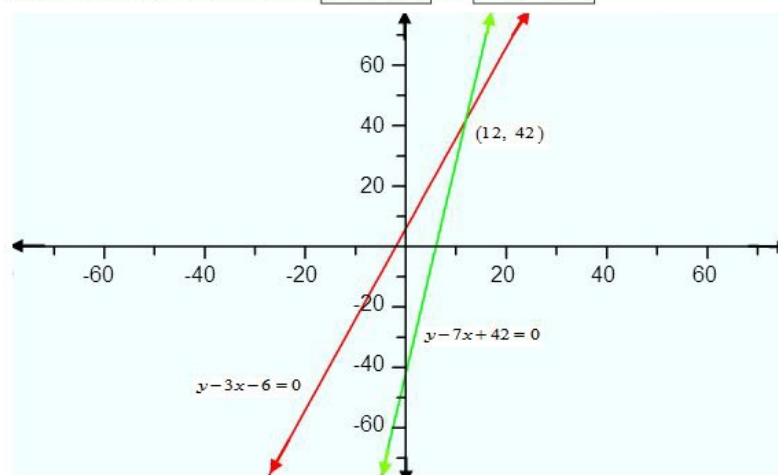
Three years from now, he will be three times older as his daughter will be, then

$$\Rightarrow y + 3 = 3(x + 3)$$

$$\Rightarrow y + 3 = 3x + 9$$

$$\Rightarrow y - 3x - 6 = 0 \quad \text{.....(2)}$$

Hence the algebraic representation are $y - 3x - 6 = 0$ and $y - 7x + 42 = 0$



***** END *****

