Linear Equations in Two Variables Ex 13.3 Q2

Answer :

We observe that $x = 3$ and $y = 12$ is the solution of the following equations

$4x - y = 0$ and $3x - y + 3 = 0$

So, we get the equations of two lines passing through (3, 12) are, $4x - y = 0$ and $3x - y + 3 = 0$.

We know that passing through the given point infinitely many lines can be drawn. So, there are infinitely many lines passing through (3,12)

Answer :

Total fare of Rs y for covering the distance of x km is given by

$y = 15 + 8(x - 1)$

$y = 15 + 8x - 8$

$y = 8x + 7$

Where, Rs y is the total fare $(x - 1)$ is taken as the cost of first kilometer is already given Rs 15 and 1 has to subtracted from the total distance travelled to deduct the cost of first kilometer.

Linear Equations in Two Variables Ex 13.3 Q3

Answer :

Total charges of Rs 27 of which Rs x for first three days and Rs y per day for 4 more days is given by

$x + y(7 - 3) = 27$

$x + 4y = 27$

Here, $(7 - 3)$ is taken as the charges for the first three days are already given at Rs x and we have to find the charges for the remaining four days as the book is kept for the total of 7 days.

********** END **********