

# Mathematics

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

## Exercise 4.1

Write the correct answer in each of the following:

### Question 11:

$x = 5, y = 2$  is a solution of the linear equation

- (A)  $x + 2y = 7$     (B)  $5x + 2y = 7$     (C)  $x + y = 7$     (D)  $5x + y = 7$

### Answer 11:

- (C)  $x + y = 7$

### Solution:

For option (A), the given equation is  $x + 2y = 7$

$$\begin{aligned}\text{LHS} &= x + 2y \\ &= 5 + 2 \times 2 \\ &= 9 \neq 7\end{aligned}$$

Hence, **LHS  $\neq$  RHS**

For option (B), the given equation is  $5x + 2y = 7$

$$\begin{aligned}\text{LHS} &= 5x + 2y \\ &= 5 \times 5 + 2 \times 2 \\ &= 29 \neq 7\end{aligned}$$

Hence, **LHS  $\neq$  RHS**

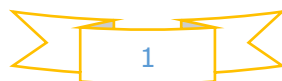
For option (C), the given equation is  $x + y = 7$

$$\begin{aligned}\text{LHS} &= x + y \\ &= 5 + 2 \\ &= 7 = 7\end{aligned}$$

Hence, **LHS = RHS**

For option (D), the given equation is  $5x + y = 7$

$$\text{LHS} = 5x + y$$



# *Mathematics*

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$$= 5 \times 5 + 2$$

$$= 27 \neq 7$$

Hence, **LHS  $\neq$  RHS**

