

Solving a System of Two Linear Equations in Two Variables by Substitution

Solve each system by substitution.

$$1) \quad \begin{aligned} y &= -4x + 16 && \text{.....(1)} \\ -3x + 8y &= 23 && \text{.....(2)} \end{aligned}$$

Solution:

Put $y = -4x + 16$ in equation 2, we get

$x =$

and solving equation 1, we get

$y =$

Therefore $x =$ and $y =$

$$3) \quad \begin{aligned} y &= 5x + 5 && \text{.....(1)} \\ y &= x + 5 && \text{.....(2)} \end{aligned}$$

Solution:

Put $y = x + 5$ in equation 1, we get

$x =$

and solving equation 2, we get

$y =$

Therefore $x =$ and $y =$

$$5) \quad \begin{aligned} x - 3y &= -12 && \text{.....(1)} \\ 4x + 6y &= -12 && \text{.....(2)} \end{aligned}$$

Solution:

Here we get $x =$ and $y =$

$$7) \quad \begin{aligned} y &= -4 && \text{.....(1)} \\ -3x - 6y &= 15 && \text{.....(2)} \end{aligned}$$

Solution:

Here we get $x =$ and $y =$

$$2) \quad \begin{aligned} -3x + 6y &= -24 && \text{.....(1)} \\ y &= 7x + 22 && \text{.....(2)} \end{aligned}$$

Solution:

Put $y = 7x + 22$ in equation 1, we get

$x =$

and solving equation 2, we get

$y =$

Therefore $x =$ and $y =$

$$4) \quad \begin{aligned} y &= 4x + 22 && \text{.....(1)} \\ y &= -4x - 18 && \text{.....(2)} \end{aligned}$$

Solution:

Put $y = 4x + 22$ in equation 2, we get

$x =$

and solving equation 1, we get

$y =$

Therefore $x =$ and $y =$

$$6) \quad \begin{aligned} 2x - 5y &= 22 && \text{.....(1)} \\ x + 5y &= -4 && \text{.....(2)} \end{aligned}$$

Solution:

Here we get $x =$ and $y =$

$$8) \quad \begin{aligned} 2x + 4y &= -10 && \text{.....(1)} \\ 7x + 8y &= -23 && \text{.....(2)} \end{aligned}$$

Solution:

Here we get $x =$ and $y =$

Equations In Two Variables Worksheet Answers

David Baker



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