

Lesson 8: EQUATIONS/SOLVING EQUATIONS WITH ONE VARIABLE

Equation – a mathematical statement that shows equality between two algebraic expressions. It is in the form of

$$L = R$$

L – Left-hand side, LHS
R – Right-hand side, RHS

Solution – any number when substituted to the unknown makes the equation true.

- Sometimes the solution can be one value
- Sometimes there are a lot of values that can satisfy the equation
- Sometimes there is no solution to an equation.

Solution Set – a group of values/solution to a particular equation. The solution is written inside the braces { }

Linear Equation – an equation which can be written in the form of

$$Ax + b = 0$$

- Notice that it is in the first degree.
- It only has one solution.
- The goal is to leave the variable into one side of the equation and the rest to the other side of the equation.
- Note that the opposite of addition is subtraction and multiplication, division.

Example: Find the solution set of the given equation.

$$4(3x+1) - 6(2x+2) = 4x$$

Solution:

$$\begin{aligned} 12x + 4 - 12x - 12 &= 4x && \text{(Distributive Property)} \\ 2x - 8 &= 4x && \text{(Simplify the LHS, similar terms)} \\ 2x - 4x - 8 &= 4x - 4x && \text{(Add -4x to both sides)} \\ -2x - 8 &= 0 \\ -2x - 8 + 8 &= 0 + 8 && \text{(Add 8 to both sides)} \\ -2x &= 8 \\ \frac{-2x}{-2} &= \frac{8}{-2} && \text{(Divide -2 to both sides)} \\ x &= -4 \end{aligned}$$

SS: [-4]

Example: Find the solution set of $\frac{3x+10}{2} - 1 - 4 = \frac{3x+6}{4}$

$$\begin{aligned} \frac{3x+10}{2} - 1 - 4 &= \frac{3x+6}{4} && \text{(Given)} \\ 4 \cdot \left[\frac{3x+10}{2} - 1 - 4 \right] &= 4 \cdot \left[\frac{3x+6}{4} \right] + 4 && \text{(Multiply both sides by the LCD 4)} \\ 2(3x+10) - 4 - 16 &= 3x+6 \\ 6x+20-4-16 &= 3x+6 && \text{(Distributive property)} \\ 2x+4 &= 3x+6 && \text{(Simplifying similar terms)} \\ 2x-3x+4 &= 3x-3x+6 && \text{(Adding -3x on both sides)} \\ -x+4 &= 6 \\ -x+4-4 &= 6-4 && \text{(Adding -4 on both sides)} \\ -x &= 2 \\ x &= -2 && \text{(Adding -1 on both sides)} \\ \text{SS: } \{-2\} \end{aligned}$$

Example: Find the solution set of $1 - 3(2x - 4) = 4(5 - x) - 8$

$$\begin{aligned} 1 - 3(2x - 4) &= 4(5 - x) - 8 \\ 1 - 6x + 12 &= 20 - 4x - 8 && \text{(Distributive property)} \\ -6x + 13 &= 16 - 4x && \text{(Simplify similar terms)} \\ -6x + 4x + 13 &= 16 - 4x + 4x && \text{(Adding -4x to both sides)} \\ -2x + 13 &= 16 \\ -2x + 13 - 13 &= 16 - 13 && \text{(Adding -13 to both sides)} \\ -2x &= 3 \\ \frac{-2x}{-2} &= \frac{3}{-2} && \text{(Dividing both sides by -2)} \\ x &= -\frac{3}{2} \\ \text{SS: } \{-\frac{3}{2}\} \end{aligned}$$

Conditional Equations – two sides equal but only for one value.

Identities – two sides equal for any value. No matter what happens the two sides will be equal.

Contradiction – 2 sides not equal for any value. No solution or empty set.

Lesson 6 Equations

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