

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:

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

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

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

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

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

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

Wenbin Ji



Lesson 6 Equations:

Reviewing **Lesson 6 Equations**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Lesson 6 Equations**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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