	Look at the equation. Are there any grouping symbols like ( ) or { }?
SOLVING EQUATIONS (top layer)	Look at each side of the equation. Are there like terms on the left side? Are there like terms on the right side?
) SNOI	Do you have variables on both sides of the equal sign?
EQUAT	Do you have a constant added or subtracted on both sides of the equal sign?
LVING	Does your variable have a coefficient other than 1?
SO	You should have a simple equation with a variable = a number. Check your solution by substituting the number in the original equation.

GLUING TAB (middle layer)	Use the distributive property to multiply the number outside the parentheses by every term inside the parentheses:  3(x² + x - 2) is the same as 3x² +3x - 6 Or -(x - 7) is the same as -x + 7  Combine like terms on the left side of the equal sign. Combine like terms on the right	Y E S Y E
	side of the equal sign. 4x + 3x is the same as 7x 5x <sup>2</sup> – x <sup>2</sup> is the same as 4x <sup>2</sup>	E S
	Choose the variable with the smaller coefficient. Undo that variable by adding the opposite to both sides of the equation. $3x + 2 = 4x - 1$ Add $a = 3x$ to both sides of the equation	Y E S
	Choose the constant that is on the same side as the variable. Undo that constant by adding the opposite to both sides of the equation. $7 = 5x - 3$ Add positive 3 to both sides of the equation.	Y E S
	Undo the coefficient of the variable by doing the opposite operation (multiply or divide).	Y
	$3x = 12$ Divide by 3 $\frac{x}{4} = 6$ Multiply by 4	E S
	Solution: $x = 5$ Original equation: $2(x - 3) = x - 1$ 2(5 - 3) = 5 - 1 2(2) = 4 4 = 4	YES

GLUING TAB (bottom layer)	There are no grouping symbols. Go to the next step	N O
	Each side of the equation is simplified, no terms can be combined. Go to the next step.	N O
	The variables are only on one side of the equation. Go to the next step.	N O
	The constant values are only on one side of the equation. Go to the next step.	N O
	The variable has a coefficient of 1. Go to the next step.	N 0
	My solution checks in the original equation!	Y E S

-	Look at the equation. Are there any grouping symbols like ( ) or { }?
SOLVING EQUATIONS (top layer)	Look at each side of the equation. Are there like terms on the left side? Are there like terms on the right side?
IONS (t	Do you have variables on both sides of the equal sign?
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GLUING TAB (middle layer)	Use the distributive property to multiply the number outside the parentheses by every term inside the parentheses: $3(x^2 + x - 2) \text{ is the same as } 3x^2 + 3x - 6$ Or $-(x - 7) \text{ is the same as } -x + 7$	Y E S
	Combine like terms on the left side of the equal sign. Combine like terms on the right side of the equal sign.  4x + 3x is the same as 7x  5x <sup>2</sup> - x <sup>2</sup> is the same as 4x <sup>2</sup>	YES
	Choose the variable with the smaller coefficient. Undo that variable by adding the opposite to both sides of the equation. $3x + 2 = 4x - 1$ Add $a = 3x$ to both sides of the equation	Y E O
	Choose the constant that is on the same side as the variable. Undo that constant by adding the opposite to both sides of the equation. $7 = 5x - 3$ Add positive 3 to both sides of the equation.	Y E S
	Undo the coefficient of the variable by doing the opposite operation (multiply or divide).	Y E S
	$ \begin{array}{ccc} 3x = 12 & \frac{x}{4} = 6 & \text{Multiply by 4} \\ \text{Divide by 3} & & & & \\ \end{array} $	S
	Solution: $x = 5$ Original equation: $2(x - 3) = x - 1$ 2(5 - 3) = 5 - 1 2(2) = 4 4 = 4	YES

GLUING TAB (bottom layer)	There are no grouping symbols. Go to the next step	N O
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	The constant values are only on one side of the equation. Go to the next step.	N O
GLUIN	The variable has a coefficient of 1. Go to the next step.	N O
	My solution checks in the original equation!	Υ
		E
		s