Algebraic Proof Worksheet

 A lgebraic proofs are two column proofs of standard algebra problems that are solved with reasons for each step. The reasons are from the properties below:

Properties of Equality for Real Numbers	
Reflexive	For every \mathbf{a} , $\mathbf{a} = \mathbf{a}$
Symmetric	For all numbers \mathbf{a} and \mathbf{b} , if $\mathbf{a} = \mathbf{b}$, then $\mathbf{b} = \mathbf{a}$
Transitive	For all numbers \mathbf{a} , \mathbf{b} , and \mathbf{c} , if $\mathbf{a} = \mathbf{b}$ and $\mathbf{b} = \mathbf{c}$, then $\mathbf{a} = \mathbf{c}$
Addition & Subtraction	For all numbers \mathbf{a} , \mathbf{b} , and \mathbf{c} , if $\mathbf{a} = \mathbf{b}$, then $\mathbf{a} + \mathbf{c} = \mathbf{b} + \mathbf{c}$ and $\mathbf{a} - \mathbf{c} = \mathbf{b} - \mathbf{c}$
Multiplication & Division	For all numbers \mathbf{a} , \mathbf{b} , and \mathbf{c} , if $\mathbf{a} = \mathbf{b}$, then $\mathbf{a}\mathbf{c} = \mathbf{b}\mathbf{c}$ and if $\mathbf{c} \neq 0$, $\mathbf{a}/\mathbf{c} = \mathbf{b}/\mathbf{c}$
Substitution	For all numbers \mathbf{a} and \mathbf{b} , if $\mathbf{a} = \mathbf{b}$, then \mathbf{a} may be replaced by \mathbf{b} in any equation or expression
Distributive	For all numbers \mathbf{a} , \mathbf{b} , and \mathbf{c} , $\mathbf{a}(\mathbf{b} + \mathbf{c}) = \mathbf{a}\mathbf{b} + \mathbf{a}\mathbf{c}$

Given: 5x - 14 = 2x + 16

Prove: x = 10

Statement	Reason
5x - 14 = 2x + 16	Given
+ 14 = +14	Addition POE
5x = 2x + 30	Substitution (Simplify)
-2x = -2x	Subtraction POE
3x = 30	Substitution (Simplify)
÷3 = ÷3	Division POE
x = 10	Substitution (Simplify)

Remember, after an addition, subtraction, multiplication or division, the next step is always a simplification or substitution step. Now use this example to finish all the problems on the back..

Algebraic Proofs With Answers

Roman Wölfel

Algebraic Proofs With Answers:

Adopting the Beat of Term: An Mental Symphony within Algebraic Proofs With Answers

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