

The Secret of Algebraic Proof and Special Properties (Geometry Honors 2.4)

Lesson 038 | Geometry | Algebraic proof

https://www.youtube.com/watch?v=8_vWrPbiZGA

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Write an algebraic proof solving $7(x-6)=42$, giving a reason for each step.

02

Write an algebraic proof solving $3(x-7)=6$, giving a reason for each step.

03

Write an algebraic proof solving $3(x-5)=15$, giving a reason for each step.

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04

Write an algebraic proof solving $7(x-8)=28$, giving a reason for each step.

05

Write an algebraic proof solving $7(x-3)=21$, giving a reason for each step.

06

Write an algebraic proof solving $7(x-13)=42$, giving a reason for each step.

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01

Write an algebraic proof solving $7(x-6)=42$, giving a reason for each step.

1. Given equation.
2. $x-6=6$, division property of equality.
3. $x=12$, addition property of equality.
4. Substitution verifies $7(12-6)=42$.

02

Write an algebraic proof solving $3(x-7)=6$, giving a reason for each step.

1. Given equation.
2. $x-7=2$, division property of equality.
3. $x=9$, addition property of equality.
4. Substitution verifies $3(9-7)=6$.

03

Write an algebraic proof solving $3(x-5)=15$, giving a reason for each step.

1. Given equation.
2. $x-5=5$, division property of equality.
3. $x=10$, addition property of equality.
4. Substitution verifies $3(10-5)=15$.

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04

Write an algebraic proof solving $7(x-8)=28$, giving a reason for each step.

1. Given equation.
2. $x-8=4$, division property of equality.
3. $x=12$, addition property of equality.
4. Substitution verifies $7(12-8)=28$.

05

Write an algebraic proof solving $7(x-3)=21$, giving a reason for each step.

1. Given equation.
2. $x-3=3$, division property of equality.
3. $x=6$, addition property of equality.
4. Substitution verifies $7(6-3)=21$.

06

Write an algebraic proof solving $7(x-13)=42$, giving a reason for each step.

1. Given equation.
2. $x-13=6$, division property of equality.
3. $x=19$, addition property of equality.
4. Substitution verifies $7(19-13)=42$.