

Watch. Practice. Understand. | Lesson 001

2022 Middle School and High School Algebra 1 Solving Linear Equations

Watch the matching video: https://www.youtube.com/watch?v=h1kD_wjTAvA

Practice focus: Linear equations

Original extra practice matched to the listed lesson topic.

Name: _____ Date: _____ Show your reasoning and check units.

01 Solve $5x - 7 = 28$.

02 Solve $3(2x - 1) = 4x + 9$.

03 Solve $(x + 2)/3 = (x - 4)/2$.

04 A gym charges \$25 plus \$8 per visit. A bill is \$89. How many visits?

Worked answers | Lesson 001

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Practice focus: Linear equations

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01 Solve $5x - 7 = 28$.

Add 7: $5x = 35$. Divide by 5: $x = 7$.

02 Solve $3(2x - 1) = 4x + 9$.

Expand: $6x - 3 = 4x + 9$. Thus $2x = 12$, so $x = 6$.

03 Solve $(x + 2)/3 = (x - 4)/2$.

Multiply by 6: $2x + 4 = 3x - 12$. Hence $x = 16$.

04 A gym charges \$25 plus \$8 per visit. A bill is \$89. How many visits?

$25 + 8v = 89$, so $8v = 64$ and $v = 8$ visits.