

JCHL Algebra 20 — Manipulation of Formula

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How to use this worksheet: these are the exact questions worked in this tutorial, in order. Try each one yourself first — the time it is posed in the video is shown, so you can pause before Paul solves it. Final answers are at the back; the full method is in the video.

Worked examples (in the video)

Example 1. Make x the subject of $3x^2 + 4 = y$ (strip one complication per line; square root last). (*worked 00:03–02:06*).

Example 2. Make y the subject of $\sqrt{(5y^2 - 3)/x} = k$ (square both sides first). (*worked 02:23–04:57*).

Questions

Q1. Make g the subject of $p = g + 2h$.

Posed at 05:38 in the tutorial.

Q2. Make t the subject of $s = bt + a$.

Posed at 06:18 in the tutorial.

Q3. Make t the subject of $s = \frac{at}{3}$.

Posed at 07:08 in the tutorial.

Answers

You can find the final answers to these questions below — pause the video and check yourself; the worked method is in the tutorial.

Example 1. $x = \sqrt{\frac{y-4}{3}}$

Example 2. $y = \sqrt{\frac{k^2x+3}{5}}$

Q1. $g = p - 2h$

Q2. $t = \frac{s-a}{b}$

Q3. $t = \frac{3s}{a}$

Overlaps with these tutorials

Builds on: Algebra 5 (solving equations — same "do the opposite" idea).