Two and four unknowns

Key skills | Free preview

Learning target: Form and solve linear systems with up to four unknowns; solve a two-equation, two-unknown system by hand.

A simultaneous solution satisfies every equation at once. Substitution or elimination can expose the structure of a small system, and the same logic extends to more unknowns. Check the final values in all original equations. A reported tuple without this check can conceal a transcription or arithmetic mistake.

Try the mathematics

Task 1. Solve $x+y=5$ and $2x-y=1$ by hand. Interpret the solution as the intersection of two lines.

Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

Find this resource: https://resources.aspiretopowerlearning.com.au/vce/skills/aspire-mm-u1-o1-ks-09/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Mathematical Methods; Unit 1; Outcome 1; Key skills; bullet 9; p. 47.

The learning target is a concise paraphrase. Aspire reference: aspire-mm-u1-o1-ks-09. This is an internal identifier, not an official VCAA code.

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