Check tool outputs and explain whether they answer the intended mathematical task.

Key skills | Free preview

Learning target: Check tool outputs and explain whether they answer the intended mathematical task.

A technology result should be checked against the original task, not merely accepted because a solver returned a number. Substitute candidate values into each original equation and interpret their units or domain. When a matrix or variable order is used, document it explicitly. Residual checks help detect transposed entries, changed signs and mismatched unknowns.

Try the mathematics

Task 1. Use a simultaneous-equation solver for 2x+y=11 and x+y=7, or enter coefficient matrix [[2,1],[1,1]] and right-hand column [[11],[7]]. State expected output and verify both equations without the solver.

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-internal-gm-u1-o3-cross-ks-11/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 1; Outcome 3; Key skills; bullet 11; p. 33.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u1-o3-cross-ks-11. This is an internal identifier, not an official VCAA code.

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