Distinguish exact and approximate technology results and understand rounding and precision.

Key knowledge | Free preview

Learning target: Distinguish exact and approximate technology results and understand rounding and precision.

Trigonometric technology must use the angle unit specified by the problem. A calculator may offer degree mode, while spreadsheet trigonometric functions commonly take radians, requiring an explicit conversion. Keep a symbolic expression or unrounded stored value until the final answer. A physical comparison, such as a hypotenuse exceeding either leg, provides an additional check.

Try the mathematics

Task 1. A right triangle has a side of 8 m opposite a 35° angle. Use a calculator in degree mode to find the hypotenuse. Give the equivalent spreadsheet expression using radians and report three significant figures.

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-u2-o3-cross-kk-02/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 2; Outcome 3; Key knowledge; bullet 2; p. 41.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u2-o3-cross-kk-02. This is an internal identifier, not an official VCAA code.

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