Choosing technology functions

Key knowledge | Free preview

Learning target: Know which technology functions are suitable for different mathematical purposes.

Choose technology functions according to the mathematical purpose. Symbolic manipulation, numerical iteration, graphing and simulation answer different kinds of questions and may use different assumptions. Give a reason for the selection, specify reproducible inputs and check the result independently. A convenient tool command is useful only when its output addresses the original task.

Try the mathematics

Task 1. Choose suitable technology functions for an exact form of the root of $f(x)=x^3-2$, an approximate location, a graph family and a random experiment. Give a concrete input or operation for each.

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-o3-kk-08/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Mathematical Methods; Unit 1; Outcome 3; Key knowledge; bullet 8; p. 48.

The learning target is a concise paraphrase. Aspire reference: aspire-mm-u1-o3-kk-08. This is an internal identifier, not an official VCAA code.

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