Selecting an informative graph window

Key skills | Free preview

Learning target: Set graph domains and display ranges so relevant features of functions or relations are visible.

Display settings are part of mathematical communication. Choose an input interval and output range that show the feature under discussion, then use a second view if necessary. State the window alongside the graph. A cropped display can mislead even when the entered formula is correct, so check important features numerically or algebraically as well.

Try the mathematics

Task 1. Choose two windows for $f(x)=x^3-2$: one showing general cubic behaviour and one resolving its positive zero. Explain the purpose of each and record the selected ranges.

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-ks-06/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Mathematical Methods; Unit 1; Outcome 3; Key skills; bullet 6; p. 49.

The learning target is a concise paraphrase. Aspire reference: aspire-mm-u1-o3-ks-06. This is an internal identifier, not an official VCAA code.

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