Choose graph windows that reveal the important features of a model.

Key skills | Free preview

Learning target: Choose graph windows that reveal the important features of a model.

Graph settings affect which patterns a reader can see. An appropriate scatterplot window includes all observations, uses the actual numerical horizontal values and leaves enough room to inspect a fitted line. Residual plots need their own vertical scale centred around zero. The plotting domain and the domain in which a prediction is supported are related but not identical.

Try the mathematics

Task 1. For x=1,2,3,4,5 and y=2,4,5,4,5, plot the observations and y-hat=2.2+0.6x. Propose a useful window, then produce a residual plot for -0.8,0.6,1,-0.6,-0.2.

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-u34-o3-cross-ks-06/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Units 3–4; Outcome 3; Key skills; bullet 6; p. 93.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u34-o3-cross-ks-06. This is an internal identifier, not an official VCAA code.

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