Drawing a function and a relation

Key skills | Free preview

Learning target: Draw low-degree polynomial graphs, elementary power graphs and relations that fail to be functions.

A graph is a set of ordered pairs satisfying a rule. Some relations give two outputs for one input, so they cannot be described as a single function y of x without a restriction. Use symmetry and exact points to draw a shape, then apply the vertical-line test and state the resulting domain and range.

Try the mathematics

Task 1. Draw $y=x^2-1$ using $x=-2,-1,0,1,2$. Give its domain and range, and explain why it is a function.

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-o1-ks-12/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). Mathematical Methods; Unit 1; Outcome 1; Key skills; bullet 12; p. 47.

The learning target is a concise paraphrase. Aspire reference: aspire-mm-u1-o1-ks-12. This is an internal identifier, not an official VCAA code.

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