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FOURIER COEFFICIENTS

The initial terms of a Fourier series give the root mean square best fit. Symmetry properties of the target function determine which Fourier modes are needed.

Mathlet	Description	Activity	Demo	Comments
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FOURIER COEFFICIENTS mode + help

The app interface displays a plot of x versus t . The x -axis ranges from -3 to 3, and the t -axis ranges from -2π to 2π . The plot shows a horizontal line at $x=0$.

Below the plot, there are controls for Target and Series Terms.

Target: A, B, C, D, E, F, G. The 'Reset' button is also present.

Series Terms: Sine, Cosine, All terms, Odd terms, Even terms.

On the right side, there are six sliders for coefficients b_1 through b_6 , all set to 0.000.



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