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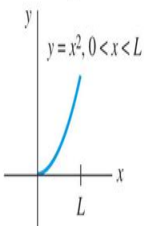
so many fake sites. this is the first one which worked! Many thanks

 **Example 3**

Expand $f(x) = x^2$, $0 < x < L$, (a) in a cosine series, (b) in a sine series (c) in a Fourier series.

Solution

The graph is shown in Fig 12.13.



The graph shows a coordinate system with a vertical y-axis and a horizontal x-axis. A blue curve representing the function $y = x^2$ is plotted for the interval $0 < x < L$. The curve starts at the origin (0,0) and increases as it moves to the right, ending at a point on the x-axis labeled 'L'. The equation $y = x^2, 0 < x < L$ is written above the curve.

ch12_30

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Solution Chapter 11 Fourier Cosine