

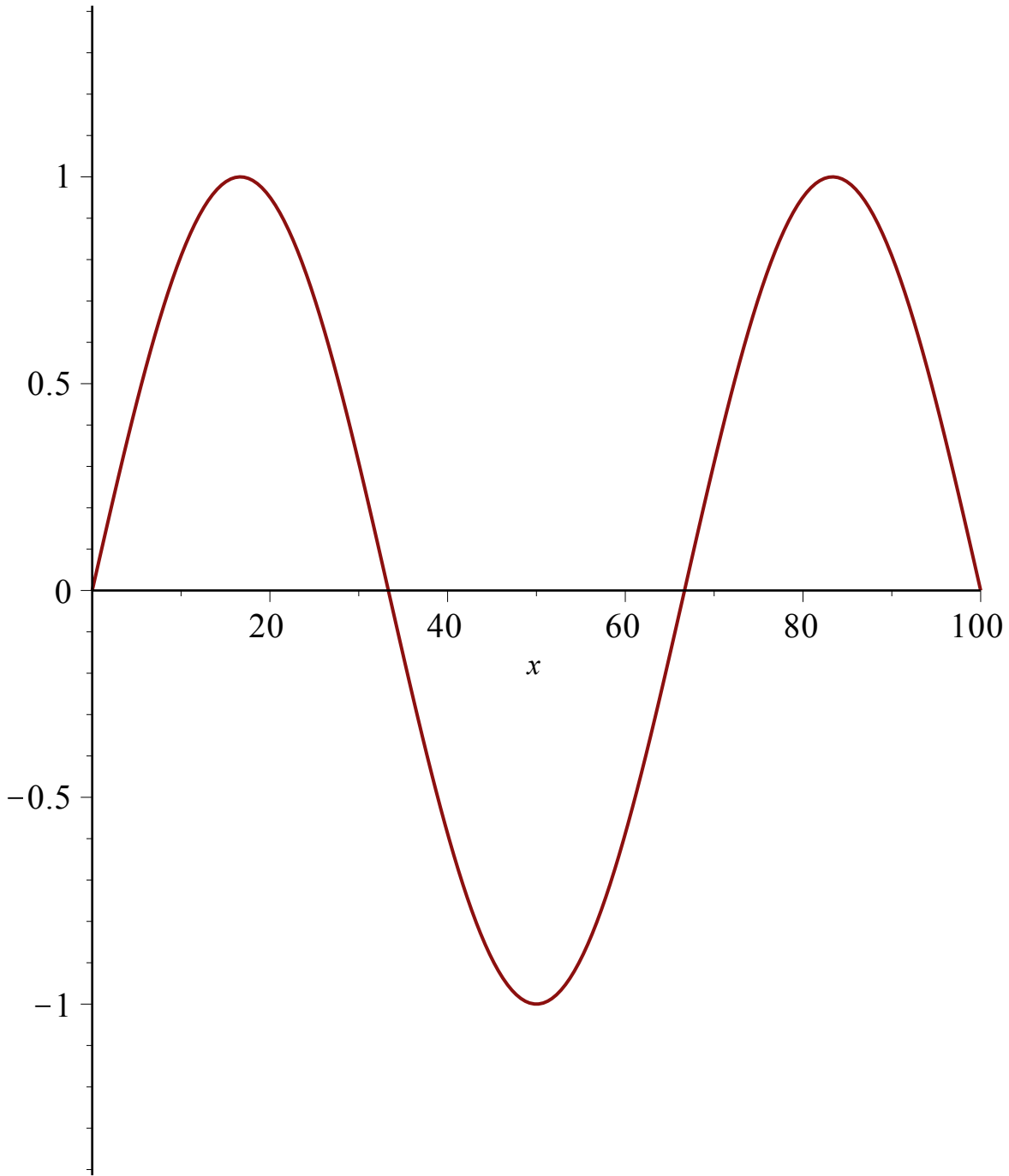
> *with(plots);*
 [*animate, animate3d, animatecurve, arrow, changecoords, complexplot, complexplot3d,*
conformal, conformal3d, contourplot, contourplot3d, coordplot, coordplot3d, densityplot,
display, dualaxisplot, fieldplot, fieldplot3d, gradplot, gradplot3d, implicitplot, implicitplot3d,
inequal, interactive, interactiveparams, intersectplot, listcontplot, listcontplot3d,
listdensityplot, listplot, listplot3d, loglogplot, logplot, matrixplot, multiple, odeplot, pareto,
plotcompare, pointplot, pointplot3d, polarplot, polygonplot, polygonplot3d,
polyhedra_supported, polyhedraplot, rootlocus, semilogplot, setcolors, setoptions,
setoptions3d, spacecurve, sparsematrixplot, surfdata, textplot, textplot3d, tubeplot] **(1)**

> $u := (x, t) \rightarrow \left(A \cdot \cos\left(\frac{c \cdot n \cdot \pi \cdot t}{L}\right) + B \cdot \sin\left(\frac{c \cdot n \cdot \pi \cdot t}{L}\right) \right) \cdot \sin\left(\frac{n \cdot \pi \cdot x}{L}\right)$
 $u := (x, t) \rightarrow \left(A \cos\left(\frac{c n \pi t}{L}\right) + B \sin\left(\frac{c n \pi t}{L}\right) \right) \sin\left(\frac{n \pi x}{L}\right)$ **(2)**

> *c := 1; L := 100; n := 3; A := 1; B := 1; animate(plot, [u(x, t), x = 0 .. L], t = 0 .. 100, frames = 100)*

c := 1
L := 100
n := 3
A := 1
B := 1

$t = 0.$



(3)

(4)