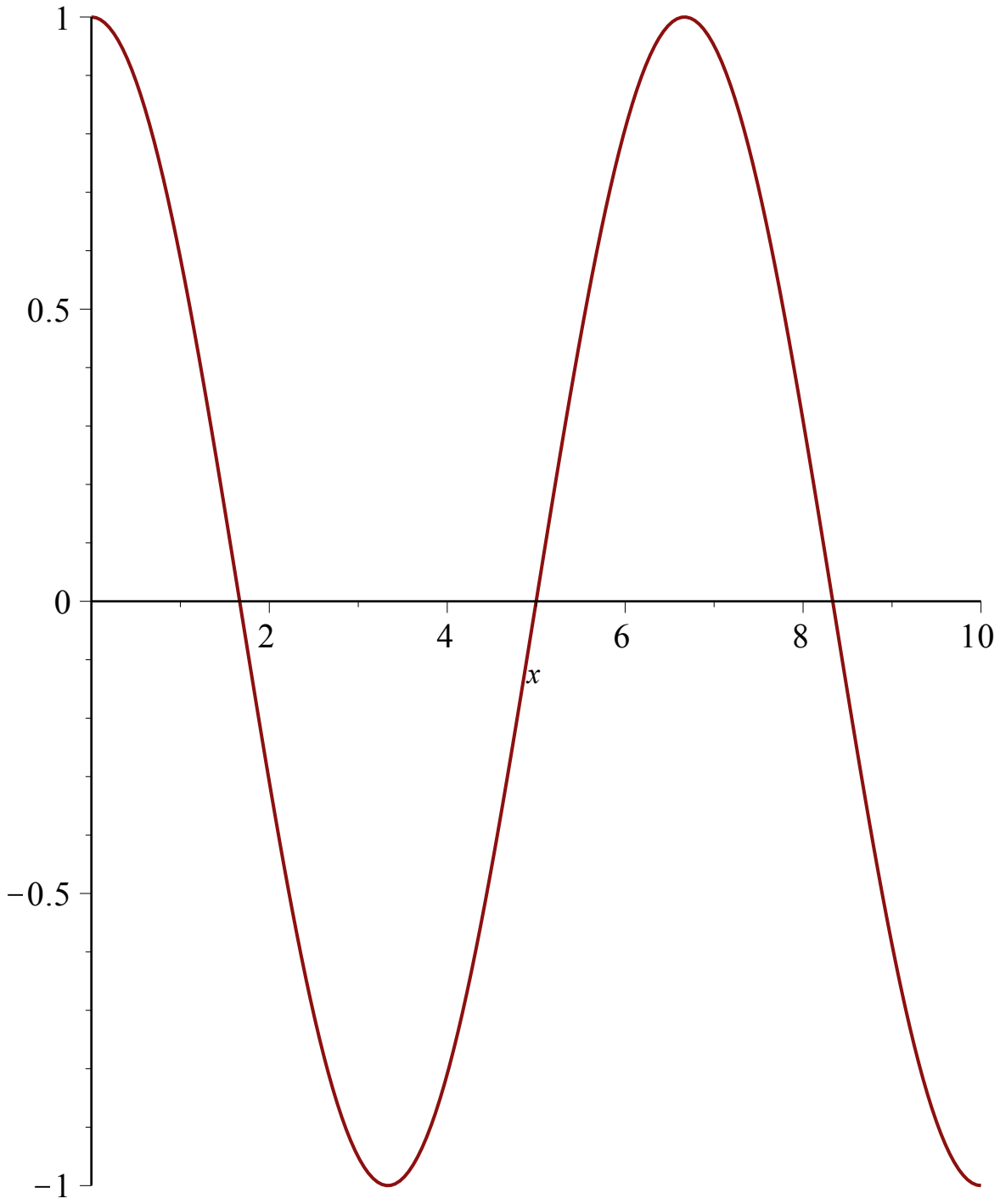


> *with(plots);*
 [*animate, animate3d, animatecurve, arrow, changecoords, complexplot, complexplot3d,*
conformal, conformal3d, contourplot, contourplot3d, coordplot, coordplot3d, densityplot,
display, dualaxisplot, fieldplot, fieldplot3d, gradplot, gradplot3d, implicitplot, implicitplot3d,
inequal, 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)**

$$\begin{aligned}
 > u := (x, t) \rightarrow B \cdot e^{-\left(\frac{c \cdot n \cdot \pi}{L}\right)^2 \cdot t} \cos\left(\frac{n \cdot \pi \cdot x}{L}\right) \\
 & \qquad \qquad \qquad u := (x, t) \rightarrow B e^{-\frac{c^2 n^2 \pi^2 t}{L^2}} \cos\left(\frac{n \pi x}{L}\right) \qquad \qquad \qquad \mathbf{(2)}
 \end{aligned}$$

> *c := 1; L := 10; n := 3; B := 1; animate(plot, [u(x, t), x = 0 .. L], t = 0 .. 4, frames = 100)*
c := 1
L := 10
n := 3
B := 1

$t = 0.$



$\triangleright u(1, 10)$

$$e^{-\frac{9}{10} \pi^2} \sin\left(\frac{3}{10} \pi\right)$$

(3)

(4)

\triangleright
 \triangleright

