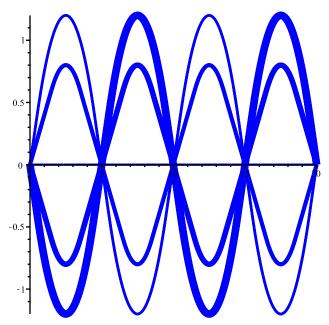
$$kn := simplify(s)$$
 $kn \cdot L$

$$\rightarrow an := \frac{\kappa n \cdot L}{c \cdot n \cdot Pi}$$

>
$$psum := subs\Big(M=1, L=5, c=1, sum\Big(an \cdot sin\Big(\frac{n \cdot Pi \cdot x}{L}\Big) \cdot sin\Big(\frac{c \cdot n \cdot Pi \cdot t}{L}\Big), n=1..100\Big)\Big)$$
:

$$curves := [seq(subs(t=2\cdot m, psum), m=0..10)]:$$

>
$$plot(curves, x = 0..20, thickness = [1, 2, 3, 4, 5.6], color = blue)$$



animate(psum, x = 0..20, t = 0..10):