GNU Octave, version 3.8.2 Copyright (C) 2014 John W. Eaton and others. This is free software; see the source code for copying conditions. There is ABSOLUTELY NO WARRANTY; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. For details, type 'warranty'.

Octave was configured for "x86\_64-pc-linux-gnu".

Additional information about Octave is available at http://www.octave.org.

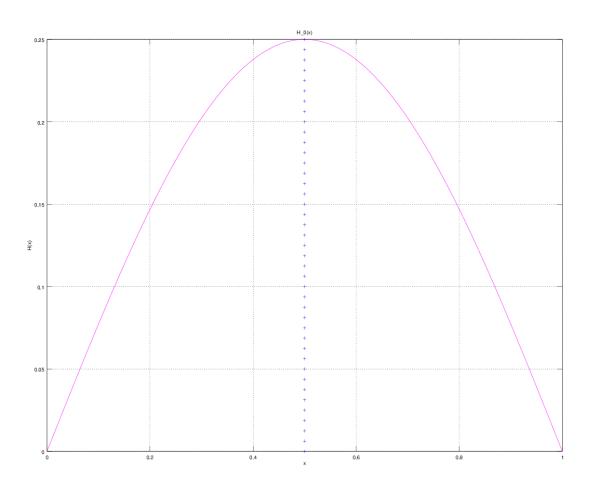
Please contribute if you find this software useful. For more information, visit http://www.octave.org/get-involved.html

Read http://www.octave.org/bugs.html to learn how to submit bug reports. For information about changes from previous versions, type 'news'.

a = 1.000000 l = 1.000000 T = 0.100000  $\epsilon = 1.0000e-10$  n = 10 k = 10 hx = 0.100000

ht = 0.010000

## Начальное возмущение = $0.25 * \sin(pi * x)$



Всего демпферов: 1

Демпфер # 1

 $x_1 = 0.500000$ 

Верхнее предельное значение  $w_1(t) = NaN$ 

Нижнее предельное значение  $w_1(t) = NaN$ 

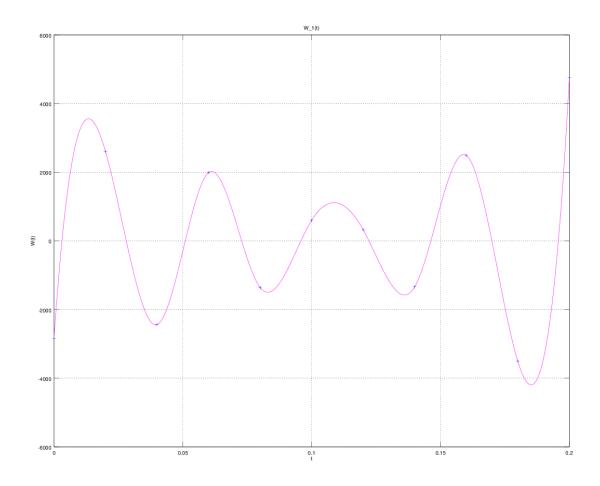
Управляющая функция w\_1(t):

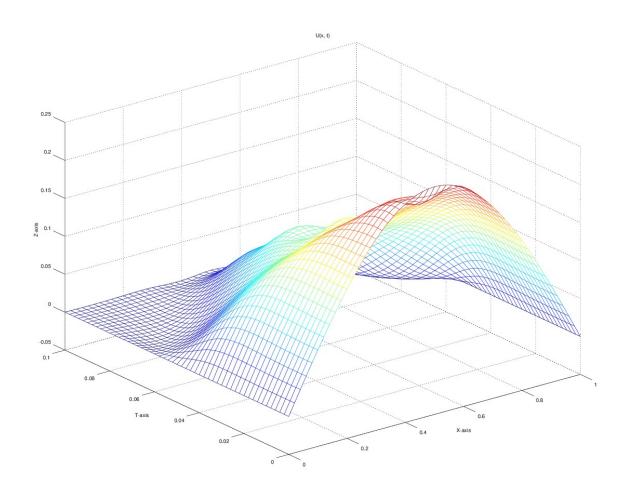
-2842.63

2602.35

-2438.24

1990.08 -1357.44 600.42 324.86 -1336.71 2491.34 -3503.88 4755.08





u(x, t)

T = 0.000000: 0.000000 0.077254 0.146946 0.202254 0.237764 0.250000 0.237764 0.202254 0.146946 0.077254 0.000000

 $T = 0.010000: 0.000000 \ 0.077470 \ 0.147190 \ 0.199804 \ 0.223576 \ 0.214632 \ 0.223576 \ 0.199804 \ 0.147190 \ 0.077470 \ 0.000000$ 

T = 0.020000: 0.000000 0.078901 0.145368 0.184580 0.193329 0.201838 0.193329 0.184580 0.145368 0.078901 0.000000

T = 0.030000:  $0.000000 \ 0.078052 \ 0.132468 \ 0.155112 \ 0.161312 \ 0.148649 \ 0.161312 \ 0.155112 \ 0.132468 \ 0.078052 \ 0.000000$ 

T = 0.040000:  $0.000000 \ 0.063336 \ 0.103421 \ 0.123864 \ 0.134323 \ 0.153637 \ 0.134323 \ 0.123864 \ 0.103421 \ 0.063336 \ 0.000000$ 

 $T = 0.050000: 0.000000 \ 0.032461 \ 0.065596 \ 0.095495 \ 0.117794 \ 0.115992 \ 0.117794 \ 0.095495 \ 0.065596 \ 0.032461 \ 0.000000$ 

T = 0.060000:  $0.000000 \ 0.004351 \ 0.029543 \ 0.067667 \ 0.098585 \ 0.115084 \ 0.098585 \ 0.067667 \ 0.029543 \ 0.004351 \ 0.000000$ 

T = 0.070000: 0.000000 - 0.005315 0.005553 0.037098 0.070472 0.084081 0.070472 0.037098

0.005553 -0.005315 0.000000

 $T = 0.080000: 0.000000 - 0.003066 - 0.002149 \ 0.011202 \ 0.039201 \ 0.057933 \ 0.039201 \ 0.011202 \\ -0.002149 \ -0.003066 \ 0.000000$ 

 $T = 0.090000: 0.000000 - 0.000759 - 0.001213 \ 0.001464 \ 0.011366 \ 0.022954 \ 0.011366 \ 0.001464 \\ -0.001213 \ -0.000759 \ 0.000000$ 

 $T = 0.100000; \ 0.000000 \ -0.000189 \ 0.000627 \ 0.000889 \ -0.000877 \ 0.002593 \ -0.000877 \ 0.000889 \ 0.000627 \ -0.000189 \ 0.000000$