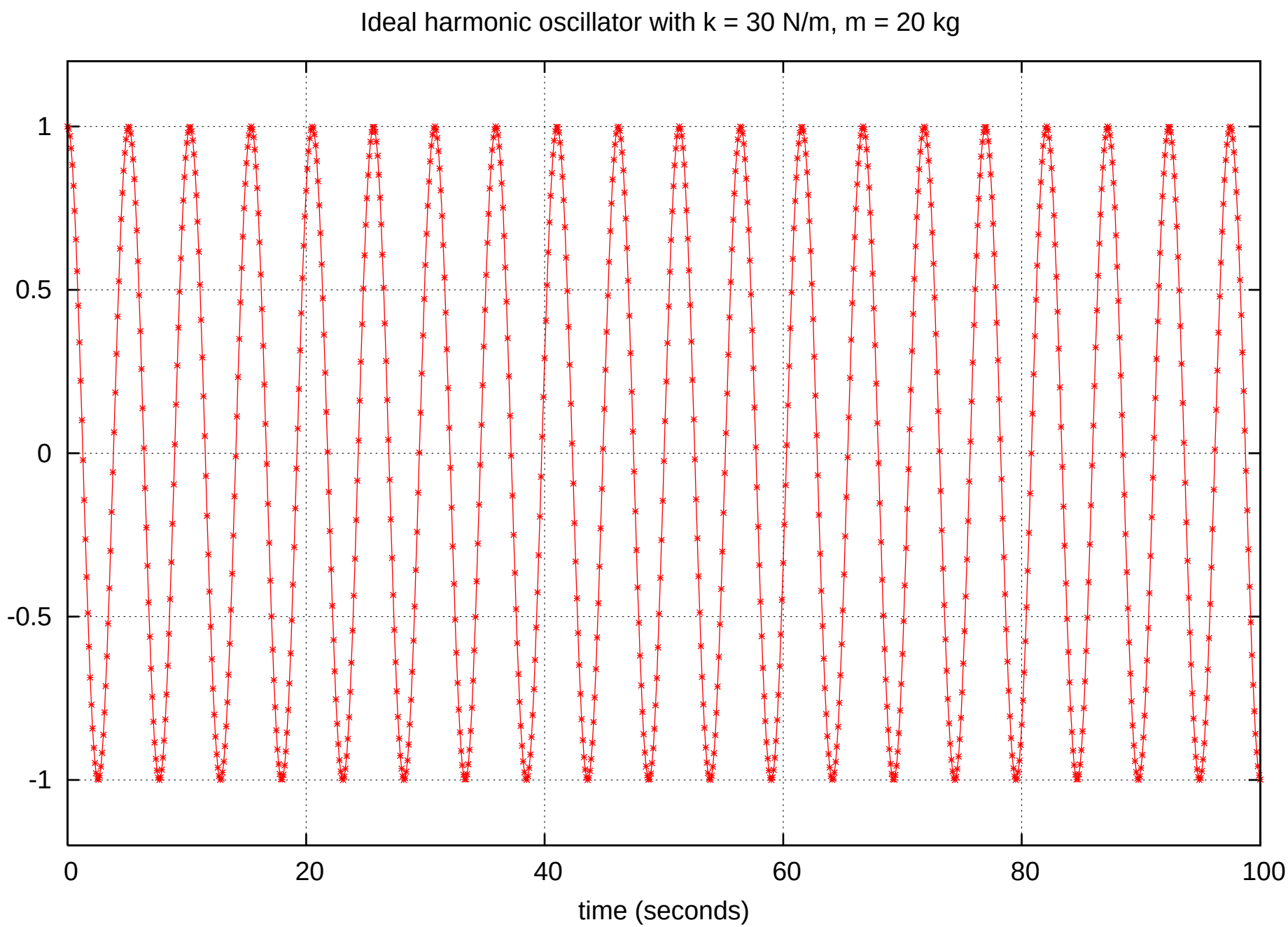
Ideal harmonic oscillator with k = 30 N/m, m = 20 kg
1
0.5
0
-0.5
-1
0
20
40
60
80
100
time (seconds)