

$m := 1$

$T_{per} := 0.1, 0.2 \dots 4$

$T_{per} =$	$\frac{2 \cdot \pi}{\sqrt{\frac{k}{m}}}$	$\xrightarrow[\text{float}, 8]{\text{solve}, k}$
0.1		3947.8418
0.2		986.96044
0.3		438.64908
0.4		246.74011
0.5		157.91367
0.6		109.66227
0.7		80.568199
0.8		61.685028
0.9		48.738787
1.0		39.478418
1.1		32.626791
1.2		27.415568
1.3		23.36001
1.4		20.14205
1.5		17.545963
1.6		15.421257
1.7		13.660352
1.8		12.184697
1.9		10.93585
2.0		9.8696044
2.1		8.9520221
2.2		8.1566979
2.3		7.4628389
2.4		6.8538919
2.5		6.3165468
2.6		5.8400026
2.7		5.4154208
2.8		5.0355124
2.9		4.6942233
3.0		4.3864908
3.1		4.1080559
3.2		3.8553142
3.3		3.625199
3.4		3.415088
3.5		3.222728
3.6		3.0461742
3.7		2.8837412
3.8		2.7339624
3.9		2.5955567
4.0		2.4674011