Theoretical Competition

3 May 2011

Student Code

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Theoretical Question 2: Creaking Door

ANSWER FORM

a1. $T_0 =$

$A =$

a2. Graph of the spring's elongation $x(t)$:

b. Graph of the velocity $v(t)$ with respect to the floor:

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c. $\bar{x} =$

d. $T =$

e. $u_c =$

f. $\kappa =$

g. Expression for Ω:

Value of Ω: