

## Homework Assignment 10

Name \_\_\_\_\_

due in class Friday, November 11

*Cover sheet : Staple this page in front of your solutions, with answers where indicated.*

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[47] Problem 4.53

*What is  $T_1 - T_2$  ?*

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[48] Problem 5.25 \*\*

*What is the time between maxima? Also, what is  $\omega_1$  for part (c)?*

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[49] Problem 5.30 \*\*

*Hand in the computer program and computer plots.*

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[50] Problem 5.37 \*\*

*Hand in the computer program and computer plot.*

*Explain the similarities and differences compared to Example 5.3.*

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[50x] Problem 5.44 \*\*

*Express  $Q$  in terms of the parameters  $(m, \omega, \beta)$ .*

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[50xx] Problem 5.52 \*\*\* [Computer]

*Hand in the computer program and computer plot.*

*Compare your results with those of the example.*