

Homework Assignment #7

Name _____

due in class Friday, October 21

Cover sheet : Staple this page in front of your solutions.

Write the *answers* (without calculations) on this page;
write the detailed *solutions* on your own paper.

[31] Problem 4.3.** *Answer: Is \mathbf{F} conservative? Why or why not?*

[32] Problem 4.8.** *Answer: The angle when the puck comes off the surface is ...*

[33] Problem 4.9.** *Answer: How does the frequency depend on g ?*

[34] Problem 4.10.*
*Answer: Consider points on the line with $x = 0$ and $z = 1$;
what is the gradient of h ?*

[35] Problem 4.18.** *Answer:*

[36] Problem 4.23.**
Answer: The potential energy function for part (b) is ...
