Name_____

Homework Assignment #7 due in class Wednesday, October 18
Cover sheet : Staple this page in front of your solutions.
INSTRUCTIONS : Write the *answers* (without calculations) on this page; write the detailed *solutions* (written clearly) on your own paper.

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

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

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

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[34] Problem 4.10.*

Answer: Consider points on the line with x = 0 and z = 1; what is the gradient of h?

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

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

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[37] Write full solutions for the three exam questions (on the back of this page).