MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Physics

Physics 8.01X Fall Term 2002

SUGGESTED PROBLEMS FOR REVIEW QUIZ 3

Here's a list of problems in the textbook (which have answers at the back), which may be helpful to review. If you have limited time, try to cover different topics, or the topics you feel least confident in.

Work and Kinetic Energy: 6-59, 6-61, 6-73

Potential Energy and Conservation of Energy: 7-57, 7-59, 7-65, 12-19, 12-21

Momentum, Impulse, Collisions: 8-21, 8-25, 8-27, 8-37, 8-43, 8-71, 8-77, 8-89

Periodic Motion: 13-55, 13-59, 13-61, 13-63

Heat Flow: 15-29, 15-85

How To Prepare For Experiment Problems

There will be at least one experiment related problem on the quiz. You should make sure that you understand the data analysis and concepts from all of the experiments. A typical problem might require you to calculate some quantity from a subset of data, in the same way as you did in the experiment analysis. To practice this, you can take a subset of your own data and try to get the same results. Make sure you can derive all the same quantities.