

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
Physics Department

Physics 8.01T

Fall Term 2004

**Experiment 01: Introduction to *DataStudio***

**Group:** \_\_\_\_\_

**Participants:** \_\_\_\_\_

\_\_\_\_\_

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**Note:** each member of the group should hand in a completed copy of this page with the homework assignment due September 14.

Look at your graphs where you tried to move your hand so the position as a function of time was a triangle wave. What do the graphs tell you was the most difficult thing to do properly?

For your group's best five seconds of sine wave motion, what did you obtain for  $\frac{\text{Root MSE}}{10|A|}$ , the RMS error between the hand position and a perfect sine wave, expressed as a percentage of the amplitude of the motion?