

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Physics Department

Physics 8.01T

Fall Term 2004

Experiment 05B: Friction

Section and Group: _____

Participants: _____

Each group need turn in only one report.

Enter the tensions measured by your group into this table:

Wrap (turns)	0	$\frac{1}{4}$	$1 + \frac{1}{4}$	$2 + \frac{1}{4}$	$3 + \frac{1}{4}$	$4 + \frac{1}{4}$
θ (radians)	0	1.57	7.85	14.14	20.42	26.70
T (N)	1.03					

1. What diameter cylinder did you use?
2. What did your fit give for the friction coefficient μ ?
3. Obtain the value of μ from a group that used a different cylinder diameter than you did and write it here.