

ASTR2050 Introduction to Astronomy and Astrophysics Studio Lab 4 March 2005
"The Distance to M81"

NAMES: _____

1) **Collect and plot the data.** Make plots on the back, or use a plotting program.

Cepheid	V (=m)	P (days)	log (P)	M	m-M
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Average of (m-M) = _____

2) **Distance to M81 = _____ Mpc** (*Calculations in the space below.*)

3) **Does this answer make sense?** *Hint:* M81 is outside our "local group" of galaxies.