

Your name: \_\_\_\_\_

Arvind Borde

# AST 9: Homework 1

- 1] How long in km is a light-minute?
- 2] If your friend says "You look light-years younger" how much younger are you?
- 3] Calculate  $10^3 \times 10^{-3}$ .
- 4] Which is the largest planet?
- 5] If you bounce a radiowave off the head of your friend and it takes 2-millionth of a second to return to you, how far is your friend from you?
- 6] What do your eyes have in common with methods used by astronomers to figure the distance to nearby stars.
- 7] Does the parallax method work better for relatively nearby objects or for very distant ones?
- 8] Which planets are these and why?

