Galaxies and Galaxy Classification

A. What is a galaxy?

B. What is meant by "Local Group"?

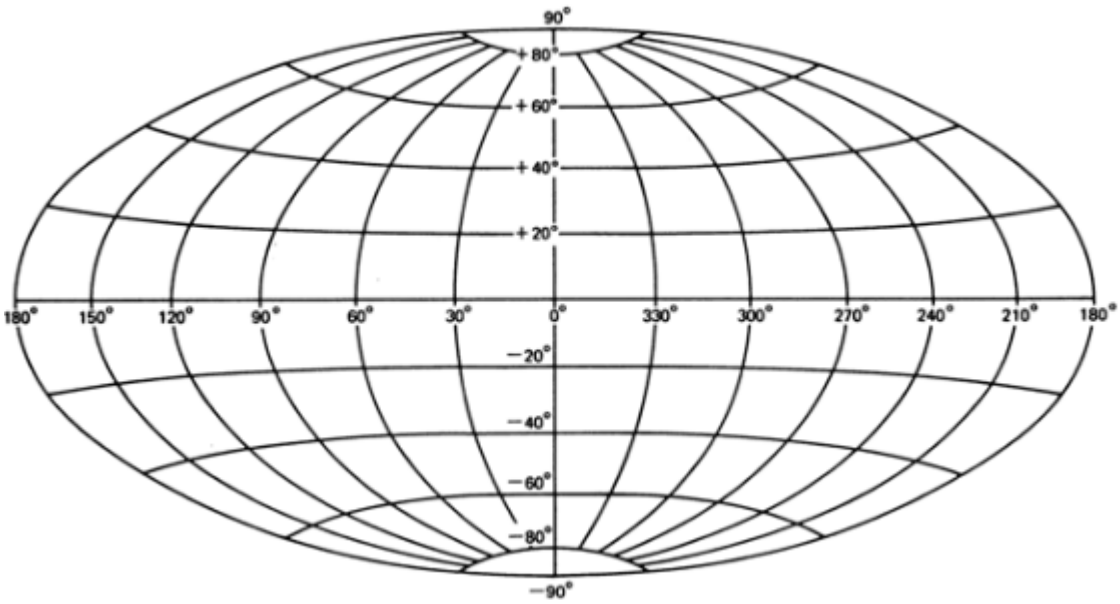
C. Identify the following galaxies as elliptical, spiral, barred spiral, or irregular.

a. _____ b. _____

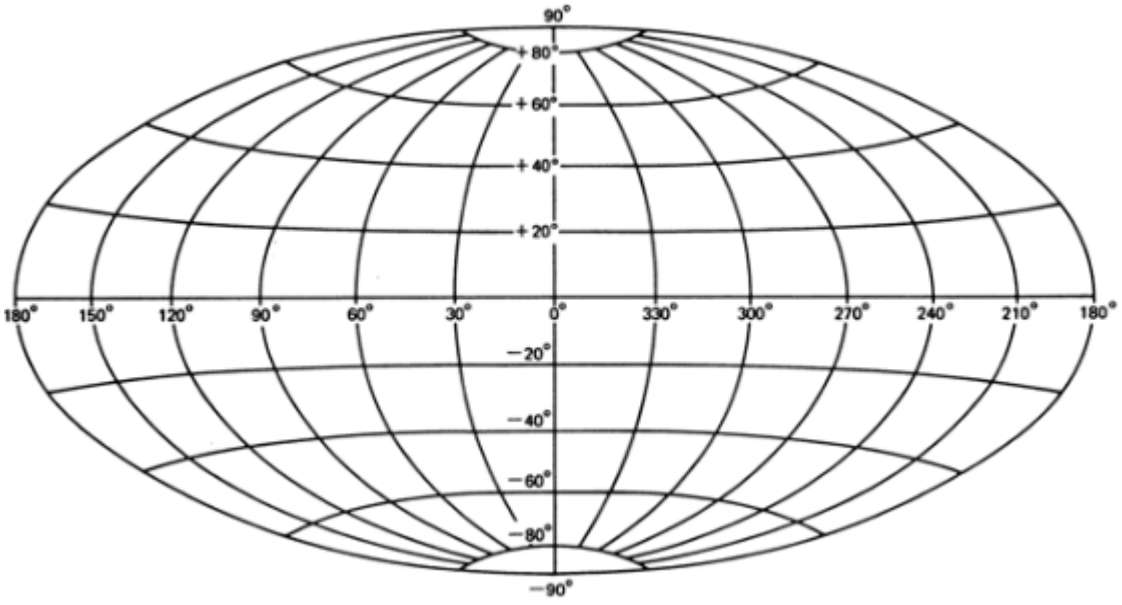
c. _____ d. _____

Galactic Coordinates

B. "O" stars in the Milky Way – follow directions in section 2.2B (Reminder: latitude is vertical; longitude is horizontal.)



C. Long-period variable stars (mostly cool giant stars) in the Milky Way – follow directions in section 2.2C



General Questions on the Milky Way

B. What are spiral tracers?

D. What difference is there between a lenticular galaxy and a spiral galaxy?

E. Which elliptical galaxy would have the most elongated shape, an "E2" galaxy or an "E6" galaxy?

BONUS just for fun: Find the luminosity of a star whose apparent brightness is 1.03×10^{-8} watt/m^2, and whose distance is about 3×10^{18} meters.