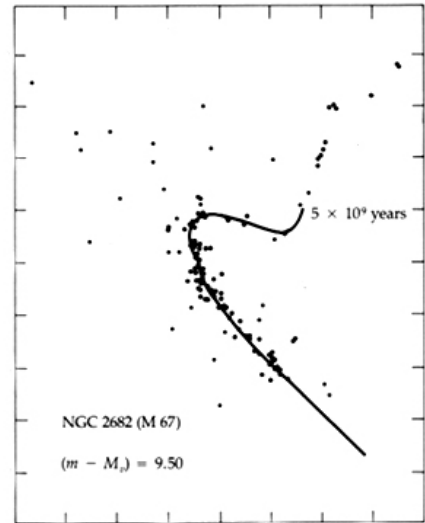
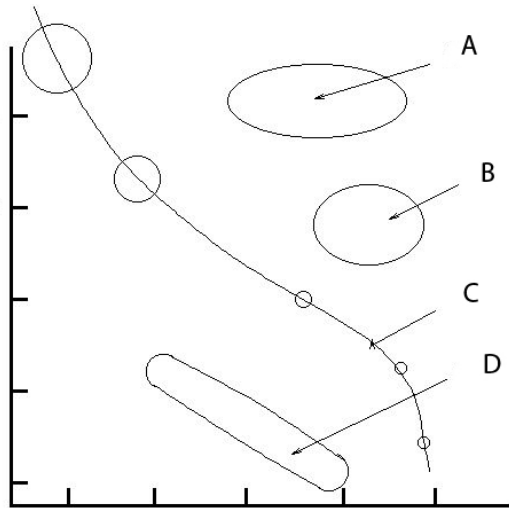


Quiz #4 PH306

29 March 2007

You have 12 minutes! After 12 minutes, you are all going to correct this test. Write your name on this test and turn it in.



In the left diagram which is a cartoon of the H-R diagram. Please write the answers on the diagram.

1. Give the correct names to the stellar sequences in the regions A-D.
2. Label the axes, and the direction of increasing units.
3. What is the mass of the stars in sequence D?
4. Show the approximate position of the sun in this diagram.
5. In the diagram, show where the sun will go when it dies.

In the right diagram:

1. What is the distance to this cluster in pc? $(m-M) = 9.50$. Please show your work, and not just the answer.
2. This cluster is 5 Byears old. Show where the sun would be in this cluster.
3. This diagram shows all the stars in the sky in direction of the star cluster M67. Some of the stars don't lie on the main sequence and red giant branch. What are these stars?