Ch 30.2: Properties of Stars Notes

Objective 5: Compare and contrast the properties of different stars.

1. Distance
   1. Describe how astronomers use parallax to find distance. What limits the use of parallax?
   2. What are common units of distance in astronomy? (see objective 7)
2. Mass
   1. Describe how astronomers determine the mass of stars in the binary using binary stars.
   2. How common are binary stars in the Milky Way galaxy?
3. Temperature/Color
   1. Describe two ways a flame is similar to stars.
   2. What color star has more energy? Less energy?
4. Brightness
   1. Apparent Magnitude –
   2. Absolute Magnitude –
   3. What is a limiting factor of absolute magnitude?
   4. Luminosity (L) –
   5. Apparent Brightness (b) –
   6. Compare and contrast luminosity and apparent brightness. Include units.
   7. Draw/insert a Hertzprung-Russell Diagram and label the axes.
   8. Variable Stars –
      1. Cepheid Variables –
      2. Nova –

* Predict and answer 3 test questions from the notes you took above.

1.

2.

3.