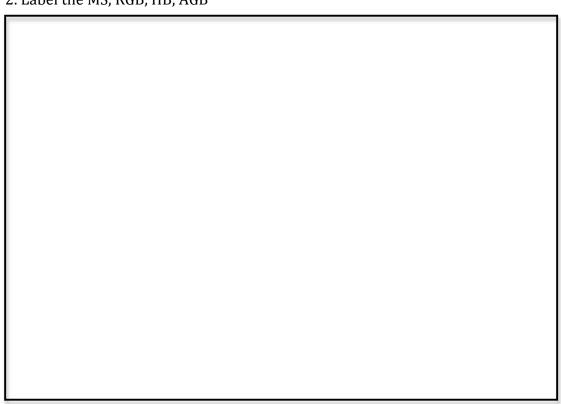
- 1. Sketch the evolutionary track of a massive star on the HR diagram.
- 2. Label the MS, RGB, HB, AGB



- 3. What event leads to supernova explosion, and where on the diagram do you expect this to occur?
- 4. Calculate the rotation rate of the sun after it eventually contracts down to a white dwarf. $M_{sun} = 1.99 \times 10^{30}$ kg, $R_{sun} = 6.96 \times 10^{5}$ km, $P_{sun} = 25$ days. Assume negligible mass loss during the red giant phase.