Homework #12

- 1. Is there good reason to believe the Cosmic Censureship Hypothesis? Explain.
- 2. Explain the difference between an event horizon and a stationary limit.
- 3. How is Bekenstein's hypothesis that a black hole has an entropy proportional to its surface area supposed to save the 2nd Law of Thermodynamics from potential violations?
- 4. What is Hawking radiation? How is it supposed to support the claim that the surface gravity of a black hole is proportional to its temperature?