

Your name: _____

Arvind Borde

AST 9: Homework 2b

- 1] According to the theory of relativity, gravity is not a true force. What is it?
- 2] What attribute of an object is connected to the curvature of spacetime that it causes? (Color? Shape? Charge? Mass?)
- 3] If you shine a ray of light then chase after it at half the speed of light, at what speed will the ray recede from you?
- 4] What are the three effects explained (or predicted) by Einstein when he proposed the final version of the theory of relativity?
- 5] The sun gives off lots of energy. Which equation from relativity might be used to predict what produces this energy?