

Your name: _____

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AST 10: Homework 13

1. What is dark matter? How much of the Universe is dark matter?
2. What is dark energy? How much of the Universe is dark energy?
3. What is the evidence for dark matter?
4. What is the evidence for dark energy?
5. Which of dark matter or energy can perhaps be explained by a cosmological constant? How?
6. Does dark matter change the shape of the graph of the scale factor from concave down to up?
7. Does dark energy change the shape of the graph of the scale factor from concave down to up?
8. What are some things that dark matter is not?
9. What are some things that dark matter might be?
10. What standard candles were used by the teams that found the accelerating expansion of the Universe?
11. What are Type 1a supernovae?