

Assignment 7

Please type your responses into a word document, and submit that on UNM Learn. Show your work for all questions. You can take scans/pictures of your work if you put them in the word document, but don't submit them as images. Be sure to number your responses 1, 2(a), etc. so I know which question you're answering. If you get stuck, post a question on the forums. Chances are you're not the only one!

1. (16 points) *Briefly define and differentiate between an asteroid, a comet, a meteor, and a meteorite.*
2. (10 points) *"I watched the meteor shower yesterday. I hope the Big Dipper isn't the next one to go, that's my favorite constellation!" your friend confides in you. Correct his response.*
3. (35 points) *We discussed the formation of the solar system from the nebular cloud.*
 - (a) (15 points) *Summarize in your own words the formation of the solar system from the solar nebula to the present solar system. Include terms like nebular cloud, accretion, protoplanet, protostar, and planetesimal.*
 - (b) (5 points) *Why are the planets of the outer solar system so much larger than those of the inner solar system?*
 - (c) (5 points) *How is our solar system different than typical stellar systems?*
 - (d) (5 points) *What are "hot Jupiters", and how do they come to be?*
 - (e) (5 points) *When did the solar system start forming?*