

Assignment 5

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. *(20 points) List the three hypotheses for the creation of the following, explain why they are correct and incorrect, and explain the presently accepted theory.*
 - (a) *The Moon.*
 - (b) *Mars.*
2. *(20 points) Earth, Venus, and Mars share some similarities.*
 - (a) *Explain the runaway greenhouse effect and the runaway refrigerator effect.*
 - (b) *How do these relate to Mars, Venus, Earth, and global warming?*
3. *(10 points) There's evidence on Mars of very recent water flow in gullies.*
 - (a) *The surface pressure of Mars is 0.007 bar and the temperature ranges from -125°C to 20°C ; looking at Figure 20 of the Ch 10 notes, can water stay in liquid form under these conditions?*
 - (b) *How can there have been recent water flow?*
4. *(10 points) Visit <https://mars.nasa.gov/programmissions/missions/future/> and elaborate briefly on a mission that will bring rocks back from Mars.*