

Read the explanation for the 2017 Sky Gazer's Almanac and answer the following. cafeastrology.com may prove helpful in terms of object coordinates.

1. What time does Jupiter rise on January 29? The pdf copy of the Sky Gazer's Almanac is for a latitude of 40 degrees North. Consider including corrections for latitude (41.3 degrees), longitude (105.6 degrees), and daylight savings time. Explain your reasoning.
2. What is the phase of the Moon on January 29?
3. What is the Julian Date on February 12?
4. What are the dates of the latest sunrise and earliest sunset (for 40 degrees N latitude?)
5. When in 2017 are Venus and Neptune closest together in the sky?
6. On March 12, is Mercury moving retrograde or prograde?
7. Why are the meteor showers all indicated as being after midnight? The explanatory text says "the radiant is highest in the sky" then. Why should that be the case?