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5. What if the Earth were 2 AU from the Sun? What would be the length of time that it would take for the Earth to make 1 complete revolution around the Sun?
6. When a planet is directly between the Earth and the Sun it is said to be in what configuration?
- (a) Inferior conjunction
 - (b) Superior conjunction
 - (c) Elongation
 - (d) Opposition
7. If the distance between the Earth and the Sun is suddenly doubled, how does the gravitational attraction between the two bodies change?
- (a) It increases by a factor of 2.
 - (b) It increases by a factor of 4.
 - (c) It decreases by a factor of 2.
 - (d) It decreases by a factor of 4.
 - (e) Not enough information is provided.
8. Approximately how long does it take for light that is leaving the Sun's surface to reach the Earth (you need to show your calculations, use the speed of light $c = 3 \times 10^8$ m/sec)?
9. In what phase of Venus can we sometimes see that planet eclipsed by the Sun?
- (a) new
 - (b) crescent phase
 - (c) quarter phase
 - (d) full
10. True or False: All planets undergo retrograde motion as seen from Earth.
- (a) True
 - (b) False
11. What two things about Venus couldn't be explained by a geocentric cosmology?
- (a) That it changes apparent size and orbital speed.
 - (b) That it has phases and changes apparent size.
 - (c) That it has phases and moons.
 - (d) That it changes apparent size and has moons.

12. What phase will the Moon be this Thursday, Feb. 6, 2014, approximately how much of the lunar surface will be illuminated? (i.e. 10%, 50% ...), and what are the rising and setting times of the Moon?

13. What is the date of the next full Moon, and when will be the next new Moon?