

0. The First quarter moon was in our skies during week 1. In class, we always drew the first quarter moon as a perfectly half-light/half-dark circle with the dividing line going straight up and down. In real life the dividing line is tilted throughout the night.
 - a. Explain why this is with both words and a drawing or a picture of a model (e.g. basketball, golf ball, and light source) if you cannot draw in three-dimensions.
 - b. Which way is the dividing line tilting as the First quarter moon sets? As it rises? As it crosses the meridian? Why?