

## QUIZ 2 – THE MOTION OF THE ZODIAC

Name: \_\_\_\_\_ Lab Section: M0 \_\_\_\_\_  
(if you want your paper back)

On the back of this page, you'll find a diagram of Earth similar to the one on your homework.

1. Consider an observer on the Tropic of Cancer.

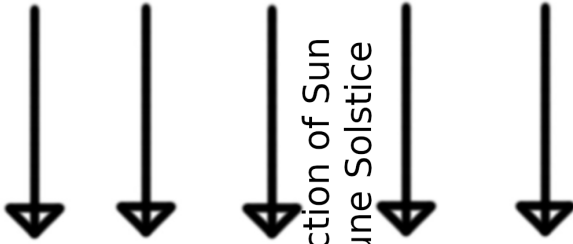
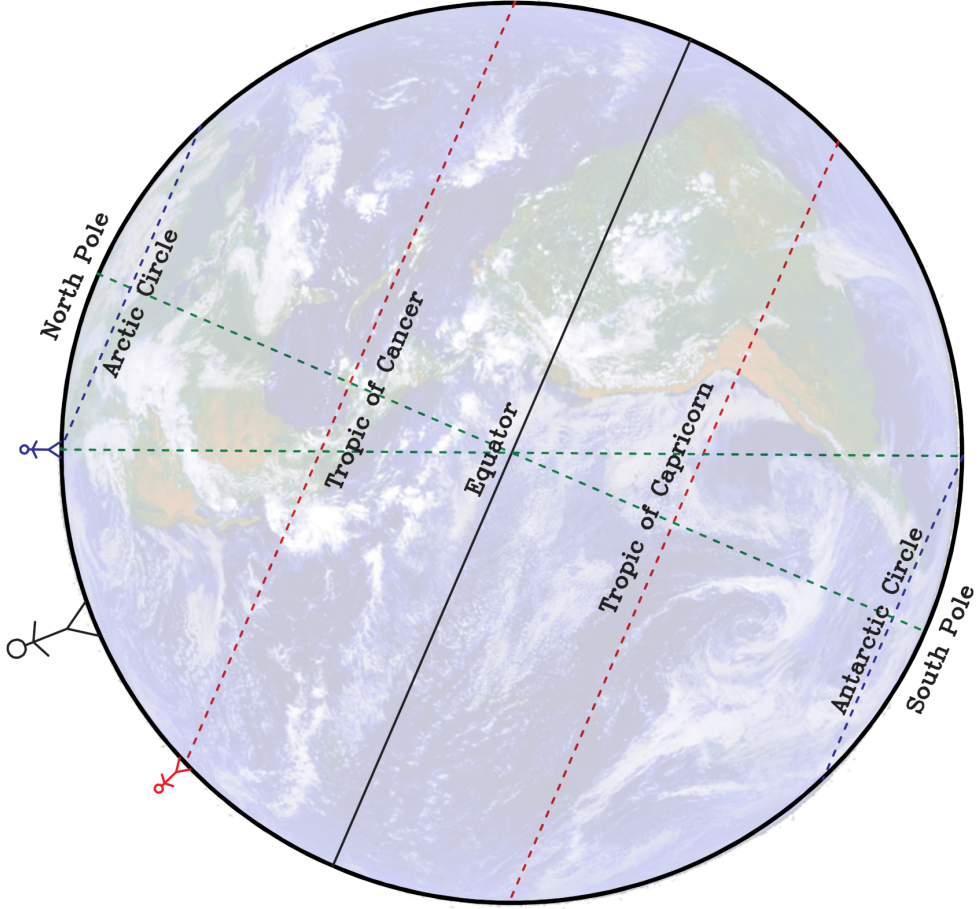
(a) Where would this observer see the Sun at noon on the June solstice? Draw a stick figure on the globe (oriented correctly with an arrow toward the Sun) to argue that your answer is correct.

(b) On the June solstice, would this observer have more hours of daylight, fewer hours of daylight, or the same amount of daylight as someone in Syracuse?

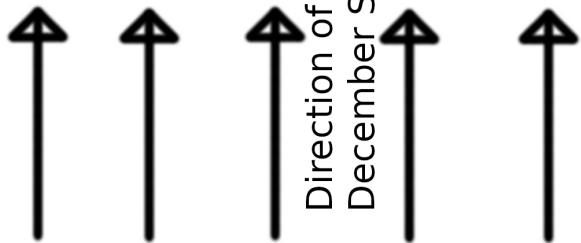
2. An observer sees the Sun rise at 10 AM and set at 2 PM. For the short period it is in the sky, the Sun is very low in their northern sky.

(a) Where on Earth is this person located? Mark this observer's possible location on Earth and label it "2a".

(b) What month would it be for your observer?



Direction of Sun  
on June Solstice



Direction of Sun on  
December Solstice