Astronomy Ranking Task:  
Phases of the Moon

Exercise #3

**Description:** Shown below are five different phases of the Moon (A – E) as seen by an observer in the Northern Hemisphere.

![Images of the phases of the Moon: A, B, C, D, E]

**Ranking Instructions:** Beginning with the waxing gibbous phase of the Moon, rank the moon phases shown below in the order that the observer would see them over the next four weeks.

**Ranking Order:**

Beginning with the waxing gibbous phase 1 ____ 2 ____ 3 ___ 4 ____ 5 ____ Last phase seen.

Or, all of these phases would be visible at the same time. _____ (indicate with check mark).

**Carefully explain** your reasoning for ranking this way:

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**Astronomy Ranking Task:**

**Phases of the Moon**

**Exercise #4**

**Description:** In each figure below the Moon is shown in a particular phase along with the position in the sky that the Moon would have at one time during the day (or night). The dark area on each moon figure shows the unlit portion of the Moon visible from Earth at that time. Assume that sunset occurs at 6 pm and that sunrise occurs at 6 am, and the observer is located in the Northern Hemisphere.

**Ranking Instructions:** Use the time each Moon phase (A – F) would appear as shown to rank the figures (from earliest to latest), starting from sunrise (6 am).

**Ranking Order:**

Earliest (about 6 am) 1 ___  2 ____  3 ____  4 ____  5 ____  6 _____  Latest

Or, the time of day or night are the same for all the phases shown. ________ (indicate with check mark).

**Carefully explain** your reasoning for ranking this way:

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