Explaining a Paradox about the Moon

Sketch of observations ofapparent motion of the Moon during several hours

Sketch of observations of apparent motion of the Moon during several days

Explanation of the paradox that the moon seems to move east to west over several hours but west to east over several days:

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| TABLE V.5  Explaining a Paradox Based on Detailed Observations of the Moon | | | |
| Sketch of set up | Evidence | Powerful Idea | Relevant Vocabulary |
|  |  | The Moon seems to move east to west over several hours because the viewer on the surface of the Earth is moving, spinning by the Moon as the Earth rotates daily on its axis. | paradox  rotate  clockwise |
|  |  | The Moon seems to move west to east over several days because the Moon actually IS moving as it revolves counterclockwise around the Earth as seen from our location. | revolve  counterclockwise |