

**Answer Key**  
**AST Review**

27. Path X: –Dec. 20 *or*  
Dec. 21 *or* Dec. 22  
–winter solstice  
–first day of winter  
Path Y: –March 20  
*or* March 21 *or*  
March 22 –Sept. 21  
*or* Sept. 22 *or* Sept.  
23 –autumnal  
equinox *or* fall  
equinox –vernal  
equinox *or* spring  
equinox –an equinox  
–first day of spring  
*or* first day of fall  
Path Z: June 20 *or*  
June 21 *or* June 22  
–summer solstice  
–first day of summer
28. 15°/h
29. — The nighttime  
side of Earth at  
location *A* faces a  
different region of  
space than at  
location *C*. — Earth  
is on different sides  
of the Sun in its  
orbit at locations *A*  
and *C*. — Earth  
revolves around the  
Sun, so locations *A*  
and *C* have different  
views of the night  
sky.
30. B
31. C
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