

Question 1

Stars and other celestial objects trace out circular paths in the night sky. Two people make the statements:

Barbie: The stars are fixed and the Earth moves.

Ken: The Earth is fixed and the stars move.

Based *only on the observed circular paths*, which of the following is true?

1. Barbie could be correct, Ken could be correct.
2. Barbie could **not** be correct, Ken could be correct.
3. Barbie could be correct, Ken could **not** be correct.
4. Barbie could **not** be correct, Ken could **not** be correct.