A ladybug sits at the outer edge of a merry-go-round, and a gentleman bug sits halfway between her and the axis of rotation. The merry-go-round makes a complete revolution once each second. The gentleman bug's angular speed is

- 1. half the ladybug's.
- 2. the same as the ladybug's.
- 3. twice the ladybug's.
- 4. impossible to determine

