

Answer in Question #55593

The fact that oscillating body completes one cycle in 2 seconds means oscillation period is 2 seconds.

Angular velocity is found:

$$\omega = \frac{2\pi}{T};$$

$$\omega = \frac{2 \cdot \pi}{2} = \pi \text{ rad/s}, \text{ which is approximately } 3.14 \text{ rad/s.}$$

<http://www.AssignmentExpert.com/>