

1. Why is an object in uniform circular motion experiencing centripetal acceleration?

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2. Why does centrifugal force not actually exist?

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3. Objects A and B are in uniform circular motion and both have a tangential velocity of 11.5 m/s.

- a. If the period of Object A is 2.4 s and the period of Object B is 1.2 s, what is the ratio of the radius of Object A's motion to the radius of Object B's motion?
- b. If the radius of Object A's motion is 3.0 m and the radius of Object B's motion is 1.0 m, what is the ratio of Object A's acceleration to Object B's acceleration?