PRINCE EDWARD ISLAND PHYSICS 12 · UNIT B · 5 QUESTIONS

Circular and Planetary Motion — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **An object moves in a circle at speed 12 metres per second with radius 24 metres. Its centripetal acceleration in metres per second squared is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **An object moves in a circle at speed 30 metres per second with radius 15 metres. Its centripetal acceleration in metres per second squared is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Planet Earth and the Moon together in black space. A planet at 4 times Earth orbital radius has period in Earth years, using Kepler third law, of**



ANSWER

Understand It with Pulse | Flag a mistake

4 **A 3 kilogram object in circular motion at 10 metres per second with radius 10 metres needs centripetal force in newtons of**

ANSWER

Understand It with Pulse | Flag a mistake

5 **The period of circular motion is the time for**

A one radian

B a change in speed

C one full revolution

D half a revolution

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 6
2. 60
3. 8
4. 30
5. C

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