MANITOBA PHYSICS 30S · UNIT D · 5 QUESTIONS

Fields — 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 **A physics lab pulley clamped to the edge of a wooden lab table, a rope running over the pulley with a small cylindrical metal mass hanging from it, a wooden block resting on the table connected by the rope, bright daylight, sharp focus, no people, no text. A mass of 8 kilograms accelerates at 5 metres per second squared. The net force, in newtons, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A mass of 4 kilograms moves at 4 metres per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Use g = 10 metres per second squared . A mass of 7 kilograms at height 4 metres has gravitational potential energy , in joules , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A wave has frequency 40 hertz and wavelength 6 metres. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A current of 3 amperes flows through a resistor of 9 ohms. The voltage, in volts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 40
2. 32
3. 280
4. 240
5. 27

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