NOVA SCOTIA ADVANCED PHYSICS 12 · UNIT C · 5 QUESTIONS

# Simple Harmonic 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** **A pendulum of length 4 metres has period 2.5 seconds. A pendulum with 4 times the length has period, in seconds, of**



ANSWER _____

Understand It with Pulse | Flag a mistake

**2** **A pendulum of length 1 metres has period 0.5 seconds. A pendulum with 4 times the length has period, in seconds, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A spring period is 6 seconds. If the spring constant is multiplied by 4, the new period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A spring period is 0.5 seconds. If the spring constant is multiplied by 4, the new period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An oscillator has amplitude 0.4 metres and angular frequency 5 radians per second. Its maximum speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. 5
2. 1
3. 3
4. 0.25
5. 2

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