NEWFOUNDLAND AND LABRADOR PHYSICS 2204 · UNIT B · 5 QUESTIONS

Dynamics — 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 block has normal force 100 N and coefficient of friction 0.2. The maximum static friction, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Two cyclists riding bicycles on a paved country road in opposite directions, passing each other, both large in frame. Two horizontal forces of 80 N and 30 N act in opposite directions. The net force, in newtons, is**



ANSWER

Understand It with Pulse | Flag a mistake

3 **Apply the idea. A 10 kg block rests on a slope at 30°. The component of weight parallel to the slope, in newtons, is**

ANSWER

Understand It with Pulse | Flag a mistake

4 **Consider the idea in general. A 20 kg block rests on a slope at 30 degrees. The normal force, to one decimal place, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Review the idea. If the net force on an object is zero, its acceleration is**

A zero

B increasing

C equal to gravity

D undefined

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 20
2. 50
3. 49
4. 169.7
5. A

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