ONTARIO PHYSICS, GRADE 11, UNIVERSITY PREPARATION (SPH3U) · UNIT B · 5 QUESTIONS

Forces — 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 **Tension in a rope pulling an object acts**

- A along the rope, toward the object only in one direction
- B perpendicular to the rope
- C downward always
- D along the rope, away from the object

Understand It with Pulse | Flag a mistake

2 **Orange basketball falling through the air above a wooden basketball court floor, ball large in frame. Air resistance on a falling object increases as speed increases until it equals weight. Then the object falls at**



A terminal velocity, at constant speed

B increasing speed

C zero speed

D decreasing speed

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3 **A free body diagram shows**

- A only the object
- B all forces acting on an object, drawn as arrows
- C only motion
- D only mass

Understand It with Pulse | Flag a mistake

4 **An object is pulled with 12 newtons east and pushed with 5 newtons west. What is the size of the net force in newtons?**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An object is pulled with 9 newtons east and pushed with 12 newtons west. What is the size of the net force in newtons?**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. D
2. A
3. B
4. 7
5. 3

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