Two-Dimensional Motion: Projectiles and Circular Motion - Practice Test | New Brunswick Physics 121-122

Practice Test

Unit C: Two-Dimensional Motion: Projectiles and Circular Motion

10 Questions

Original practice test based on the New Brunswick curriculum. Work through each question, then check your answers at the end.

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.

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Question 1

A projectile flight time is 6 seconds and horizontal velocity is 15 metres per second. Its range in metres is

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Question 2

A circular motion period is 2 seconds. In 10 seconds the number of revolutions is

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Question 3

A projectile launched horizontally has initial vertical velocity equal to

A) zero

B) its horizontal velocity

C) g

D) maximum

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Question 4

Air resistance on a projectile reduces its

A) mass

B) range

C) gravity

D) time only

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Question 5

Centripetal force is not a new kind of force but a role played by a

A) fictitious force

B) field only

C) real force

D) mass

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Question 6

Banked curves help vehicles turn by providing centripetal force from the

A) weight only

B) friction only

C) engine

D) normal force

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Question 7

A geostationary satellite orbits above the

A) equator

B) poles

C) tropics

D) horizon

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Question 8

The speed of a satellite decreases as its orbital radius

A) decreases

B) increases

C) stays constant

D) doubles

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Question 9

A projectile and a dropped object released at the same height hit the ground at the

A) different times

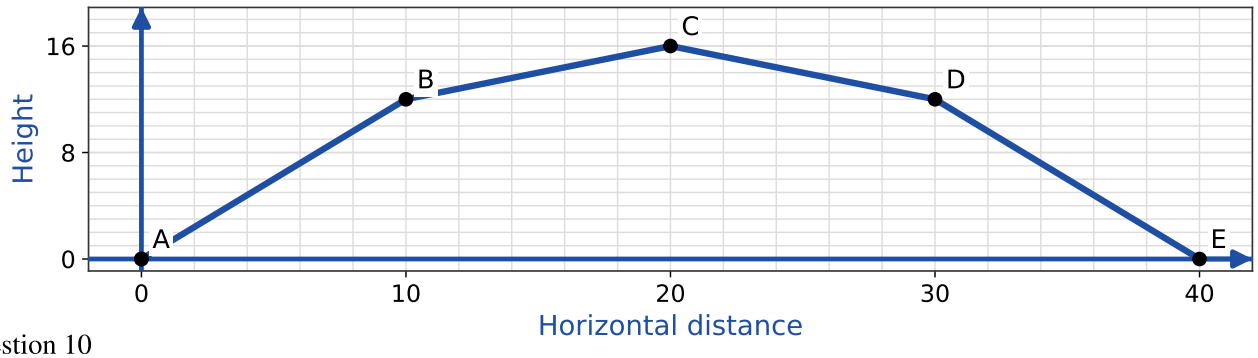
B) same speed

C) same time

D) same range

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Question 10

The graph shows height rising then falling. The shape is a

A) circle

B) straight line

C) hyperbola

D) parabola

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ANSWER KEY

1. 90
2. 5
3. A
4. B
5. C
6. D
7. A
8. B
9. C
10. D

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