ARKANSAS PHYSICS · UNIT 4 · 5 QUESTIONS

Light and Modern Physics — 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 light ray hits a mirror at an angle of incidence of 50 degrees What is the angle between the incoming ray and the reflected ray?**

- A 25 degrees
- B 40 degrees
- C 100 degrees
- D 50 degrees

Understand It with Pulse | Flag a mistake

2 **An object 4 centimeters tall forms an image 8 centimeters tall The magnification is**

- A 2
- B 0.5
- C 4
- D 32

Understand It with Pulse | Flag a mistake

3 **The speed of light in a material is 150000 kilometers per second The speed of light in a vacuum is 300000 kilometers per second The refractive index of the material is**

- A 0.5
- B 2
- C 1.5
- D 450000

Understand It with Pulse | Flag a mistake

4 **A lens has a focal length of 0.25 meters Its power is $\frac{1}{0}$.25 diopters Its power is**

- A 0.25 diopters
- B 2 diopters
- C 4 diopters
- D 25 diopters

Understand It with Pulse | Flag a mistake

5 **A sample starts with 100 grams of a radioactive isotope After one half life, the mass remaining is**

- A 25 grams
- B 75 grams
- C 100 grams
- D 50 grams

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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