

Advanced Placement Physics Practice Test Questions and Answers

1. A 2.0 kg object is moving at 5.0 m/s when it collides elastically with a 3.0 kg object at rest. What is the velocity of the 2.0 kg object after the collision?

- A) -1.0 m/s
- B) 1.0 m/s
- C) 2.0 m/s
- D) 3.0 m/s

2. Which of the following best describes the relationship between electric field and electric potential?

- A) Electric field is the derivative of electric potential
- B) Electric field is the negative gradient of electric potential
- C) Electric potential is the derivative of electric field
- D) Electric field and potential are directly proportional

3. A wave has a frequency of 60 Hz and a wavelength of 5.0 m. What is the wave speed?

- A) 12 m/s
- B) 65 m/s
- C) 300 m/s
- D) 3000 m/s

4. In a photoelectric effect experiment, increasing the intensity of incident light while keeping frequency constant will:

- A) Increase the maximum kinetic energy of emitted electrons
- B) Increase the number of emitted electrons
- C) Decrease the work function of the metal
- D) Change the threshold frequency

Answers: 1-A 2-B 3-C 4-B

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