

AP PHYSICS 1

SECTION I

Note: To simplify calculations, you may use $g = 10 \text{ m/s}^2$ in all problems.

Directions: Each of the questions or incomplete statements is followed by four suggested answers or completions. Select the one that is best in each case and then fill in the corresponding circle on the answer sheet.

1. What happens to the force of gravitational attraction between two small objects if the mass of each object is doubled and the distance between their centers is doubled?
- (A) It is doubled.
 (B) It is quadrupled.
 (C) It is halved.
 (D) It remains the same.

Questions 2–4 refer to the following figure:



2. If the surface of the incline is frictionless, how long will the block take to reach the bottom if it was released from rest at the top?
- (A) 0.5 s
 (B) 1.0 s
 (C) 1.4 s
 (D) 2.0 s
3. If the surface of the incline is frictionless, with what speed will the block reach the bottom if it was released from rest at the top?
- (A) 8 m/s
 (B) 10 m/s
 (C) 14 m/s
 (D) 18 m/s

4. If the coefficient of friction between the block and the incline is 0.4, how much work is done by the normal force on the block as it slides down the full length of the incline?
- (A) 0 J
 (B) 2.0 J
 (C) 4.0 J
 (D) 4.9 J

5. Two satellites are in circular orbit around the Earth. The distance from Satellite 1 to Earth's center is r_1 , and the distance from Satellite 2 to the Earth's center is r_2 . What is the speed of Satellite 2?
- (A) $v_1 \sqrt{r_2/r_1}$
 (B) $v_1 \sqrt{r_1/r_2}$
 (C) $v_1 \left(\frac{r_2}{r_1} \right)$
 (D) $v_1 \left(\frac{r_2}{r_1} \right)^2$

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