PHYSICAL SCIENCES

GRADE 12

SESSION 1

(LEARNER NOTES)

TOPIC 1: MECHANICS - PROJECTILE MOTION

7

Learner Note: Always draw a diagram of the situation and enter all the numerical values onto your diagram. Remember to SELECT A DIRECTION AS POSITIVE OR NEGATIVE.

SECTION A: TYPICAL EXAM QUESTIONS

QUESTION 1: 6 minutes

(Taken from the WC Prelim. paper 2008)

A cross-bow (bow and arrow) is used to shoot an arrow vertically upwards into the air from the top of an 80 m high platform. The arrow reaches a height of 15 m above the platform and then falls to the ground below, ignore the effects of air friction.



- Calculate the magnitude of the velocity of the arrow at the instant it is shot up into the air from the top of the platform.
- 1.2 Calculate the time it takes for the arrow to reach the ground from the moment it is shot upwards
 (4)





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George Neilson

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Magnetic Fusion Energy George Neilson,2016-06-02 Magnetic Fusion Energy From Experiments to Power Plants is a timely exploration of the field giving readers an understanding of the experiments that brought us to the threshold of the ITER era as well as the physics and technology research needed to take us beyond ITER to commercial fusion power plants With the start of ITER construction the world's magnetic fusion energy MFE enterprise has begun a new era The ITER scientific and technical S T basis is the result of research on many fusion plasma physics experiments over a period of decades Besides ITER the scope of fusion research must be broadened to create the S T basis for practical fusion power plants systems that will continuously convert the energy released from a burning plasma to usable electricity operating for years with only occasional interruptions for scheduled maintenance Provides researchers in academia and industry with an authoritative overview of the significant fusion energy experiments Considers the pathway towards future development of magnetic fusion energy power plants Contains experts contributions from editors and others who are well known in the field Physics Briefs ,1993 Soviet Physics, Solid State ,1974 Who's Who in America Marquis Who's Who, Inc,2002

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