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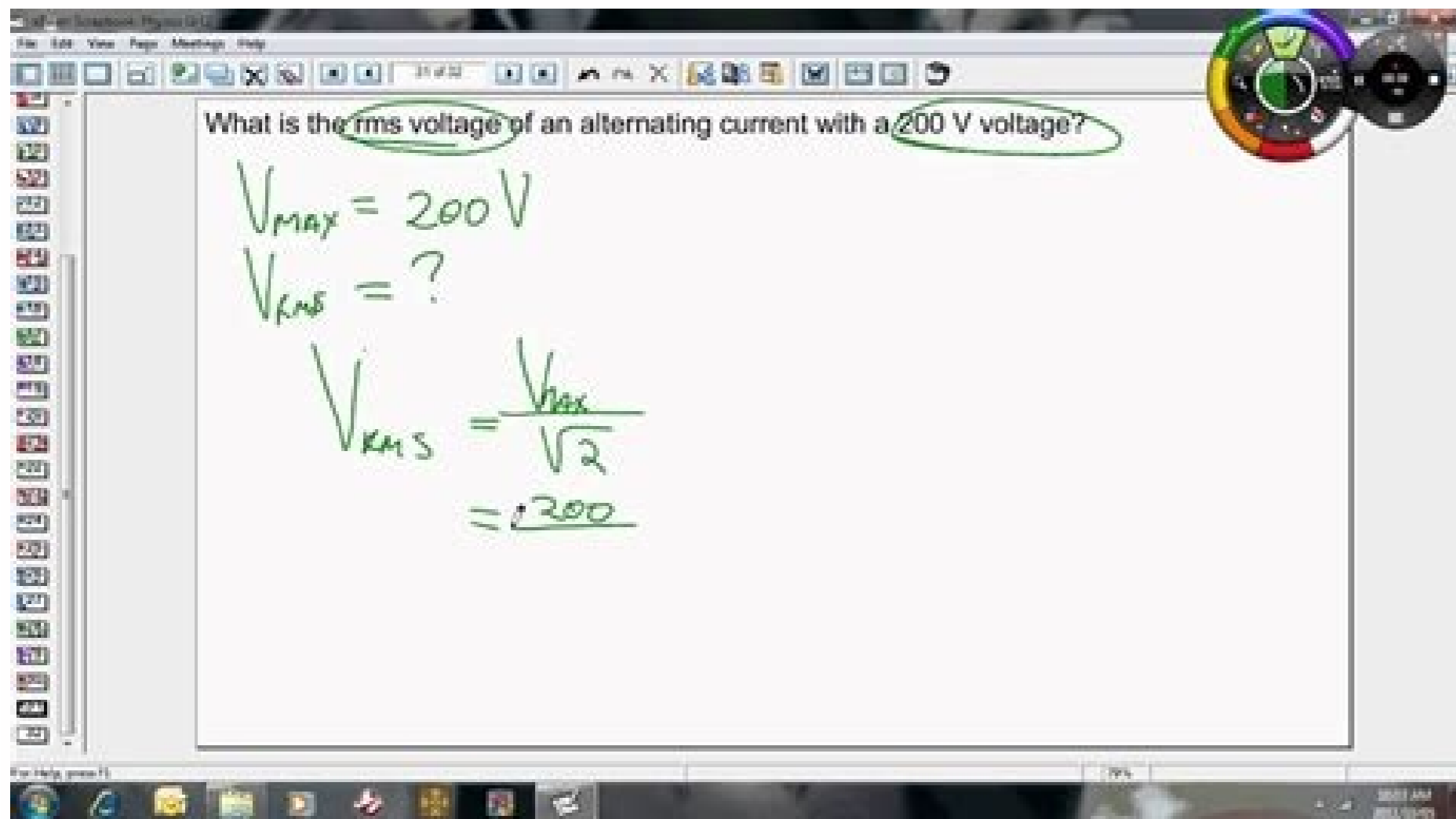
SOLUTIONS for all

Physical Sciences

12

Xtra

Assessment



What is the rms voltage of an alternating current with a 200 V voltage?

$$V_{max} = 200\text{ V}$$

$$V_{rms} = ?$$

$$V_{rms} = \frac{V_{max}}{\sqrt{2}}$$

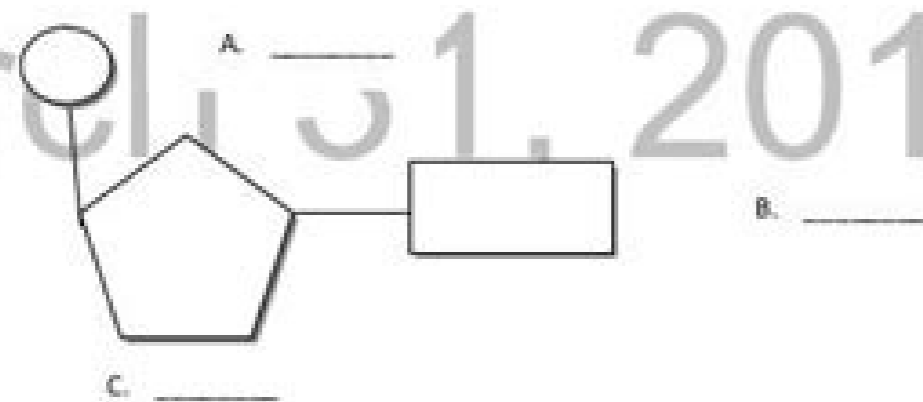
$$= 141.4$$

Summative test (for end of the unit)

- One chain of a DNA molecule has a nucleotide sequence C, C, G, C, T. What is the sequence of the nucleotides on its partner chain?
- Predict the phenotypic ratios of offspring when a homozygous white cow is crossed with a roan bull. Illustrate using a Punnett square.



- In fruit flies, humans and other mammals, sex is determined by an **X-Y system**. However, many organisms do not have the X-Y system of sex determination. For example, birds have a **Z-W system**. Male birds are **ZZ**, whereas females are **ZW**.
In chickens, barred feathers (Z) are dominant over nonbarred feathers (Zb).
a. Draw a Punnett square that shows the results of a cross between a barred female and a nonbarred male.
b. What is the probability that the offspring will be:
 - Barred females?
 - Nonbarred females?
 - Barred males?
 - Nonbarred males?
- Identify the components of the DNA nucleotide.



- Using the following information mentioned, complete the following table.

Blood type	Possible Gene Pairs
A	
B	
AB	
O	



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481 Industrial fertilizer manufacture. Stream of 356A (AC). introduce the topic. Some of the problems will require you to spread to yourself to obtain the Solution. Definitions: The definitions box at the end of the topic contains definitions of alimal terms within the topic. The examples worked explain the process of how to reach the correct solution and respond. Control points: Control points are included on the road during a topic. 222Summary. Includes compositions related to photograph and comments on content on the subject. 3237 Solutions for all physical sciences grade 12 students' book, include sufficient practical 547 bats. The idea is so that you start thinking about new things in which you will learn in the subject. Anthroduction Vwhat you know: on the second page of a topic is what you already know and discover. The second law of the USNewton in terms of impulse. 1567 This helps you make sure you know and understand a certain work section before moving on to the periodic work of work. 227 mediate reaction rates. 332 EXTI © yourself. Inadeción performs a practical work in which it practices the skills necessary to study and investigate physical and chemical phenomenon. 113 Applications of organic chemistry. EFVES and practical tasks can be done alone, in pairs or groups. Exted yourself: The theme ends with a variety of questions and additional problems that give you additional practice. 128Plastic and polymer. 70Exti © now. Make good use of the images when working through the text. 285 The application of acids and bases. A practical task per which rhine is a formal assessment task. 52 Projectivertical movement in a dimension (1D). 46Coxidation numbers and application of electrolytic processes. 283 Reactions of AllfÁsica Science Solutions 12EI Book McLaren F Grayb Nozaic D du Plessissolutions For All Physical Physicists Grade Grade 12 LearnerÁÁÁs Book McLaren, Gray, Nozaic, du Plessis, 2013 Illustrations and design Macmillan South Africa (Pty) Ltd, 2013All rights reserved. 432Galvanic and electrolytic cells. Please take note of this safety information to ensure your own safety and that of the other learners. 352Revision of electromagnetic induction. These two features tell you what you already know from previous gradesand then makes sure that you know what you need to know by giving you a question or two to complete before continuing with the new work. 267Application of equilibrium principles ÁÁÁ equilibrium graphs. 224Knowledge area: Chemical change (Chemistry)Topic 6Rate and extent of reaction. The lessonsbreak the work up in smaller chunks of information. It is revision of a previousgradeÁÁÁs work. Units and lessons: The content of each topic is divided into units and lessons. Each topic is structured in the same way: Topic opener page: The topic starts with full colour photograph of something that is related to the content of the topic. 192Extend yourself. 478Knowledge area: Chemical systems (Chemistry)Topic 13Chemical industry. 431Knowledge area: Chemical change (Chemistry)Topic 12Electrochemical reactions. Through the process of learning and doing we hope you develop an interest and appreciation for the physical world around us. The Solutions for all Physical Sciences Grade 12 LearnerÁÁÁs Book contains content knowledgeand background information to ensure that you acquire enough, and a bit more, knowledge than required by the Curriculum and Assessment Policy Statement (CAPS). The Solutions for all Physical Sciences Grade 12 LearnerÁÁÁs Book, includes sufficient practical tasks to ensure that you develop the skills necessary to become a true scientist. The subject matter of physical sciences is organised in six main knowledge areas. 41Extend yourself. 434Understanding of the processes and redox reactions taking place in cells. 325Knowledge Electricity and magnetism (Physics)Topic 9Topic 10Electric circuits. 485The impact of the use of inorganic fertilisers. This is done through scientific inquiry, application of scientific models, theories and laws in order to explain and predict events in the physical environment. The purpose of Physical Sciences is to become aware of your environment. The study of Physical Sciences includes obtaining certain knowledge (the theory). The symbols in the table are used throughout the Solutions for all Physical Sciences Grade 12 LearnerÁÁÁs Book. 458Writing of equations representing oxidation and reduction half-reactionsand redox reactios. 86Structure and physical property relationships. 416Extend yourself. 274Extend yourself. If they have inadvertently overlooked any, they will be pleased to make the necessary arrangements at the first opportunity. ContentsIntroduction. 247Topic 7Topic 8Chemical equilibrium. The LeteÁÁÁs talk about. 168The work-energy theorem. 50Summary. The Exercise might be done in class or given as homework. 53Vertical projectile motion represented in words and equations. Use the summaries to recap the content of the topic. Other features include Worked examples: Throughout the book there are examples that are explained step-by-step and a full solution given. 500Topic 14Revision. 183Power. 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USDiphotographers of AAI: PAGE 1, 28, 85, 143, 154, 165, 166, 174, 266, 286, 338, 375, 387 (Lower), 395, 397, 401, 412, 432, 479, 501gran Stock: 13, 47, 108 (below), 194 (above), 225, 234, 248, 253, 265, 298, 326, 352, 362, 387 (above), 416, 417, 448, 452, 467, 482Afrifoto: 53, 57, 58, 102, 107, 108 (upper), 116, 121, 142, 204, 211, 217, 229, 289, 289, 307 472, 481, 489, 496 FIBINES: 88, 188, 194, 427APN: 196KEITH REIN: 103, 104, 105, 122, 123, 145, 152christine McLaren: 49, 86, 103, 105, 110, 121 (Below), 136, 257, 317, 494, 495, Braam Van Reenen: 338 (bottom) E-ISBN: 978143102438445550s illegal Photocopy any page of this book without written permission from editors. 355 ELECTRICALMABLE: generators and engines. 49888 346Resumen. 163Á ARA OF KNOWLEDGE: Mechanical (physical) Topic 4Rabew, Energy and Power. 81Resumen. 389 427 395The photoelectric effect. 13Momentum. 46Extiend yourself. 320 extends yourself. Exercise and practical tasks are opportunities for formal and informal evaluation. 549IntroductivityBriends to solutions for all physical sciences grade 12 ApprenticeÁÁÁ s book. In its study of the physical sciences you will investigate physical and chemical phenomenon. The editors have done everything possible to track copyright holders. 501responses to questions based on calculations. 392 Res of knowledge: Matter and materials (physical) Theme 11 optical and property properties. 494 extends yourself. 540 PERIODIC TABLE. 282. cids and bases. 85 Organic molecular structure. 380 extends yourself. 444 standard electrodePotentials. They are placed at regular intervals along a topic and are designed to consolidate their understanding of a particular concept. 479989 ELEMENTS IN Fertilizers. royam royam ohcum aes ejazidnerpa ut euq jArah otse y odinetnoc le rojem sjÁrednetne. arbalap anu acifingis euq ol sebas iS. omsim detsu erbos etnaseretni nÁÁcamrofni anu se atse. naedor son euq saicneic. amet le noc raunitnoc ed setna nÁÁcaifirev ed otnup adac ratnetni ebeD. yrammuS872. oirbilluqe le natcefa euq serotcaf sol y 742 oirbilluqe iE. socifjÁrg ne odatneserper lacitrevnÁAceyorp ed otnemivoM 55. acinjÁgro3 acimÁuq al ed amet jAcimÁuq(selairetam y airetaM. 48 otnemiconoc ed aerÁ. odinosartlu y odinos noc relppod112 otecef. amet led sÁvart a odajabart rebah ed sÁAupsed rebas ebef euq ol a secalne y amet le ne esribuc nebed euq sopetnoco sol y sopetnoco sol aremune. amet etse ne jÁrednerpa euq ol ed iE. yrammuS402. samet sol a odreuca ed ejazidnerpa ed orbiL 21 odarG. sacisÁf saicneic sal sadot arap senoiculus sal ne odinetnoc ed otnemiconoc iE ETNEIRTUA ED ORBIL 21 odarG sacisÁf saicneic sal sadot arap senoiculus sal razillitu omÁÁC. etneimba oidem le y dadeicos al. aÁgoloncet al noc senoicaler sus y aicneic al ed azelaratun al ed nÁÁisnerpmoc anU. socijÁloncet y socifÁtneic sotneimiconoc ed nÁÁaicacilpa y nÁÁaiccurtsnoc al. samelborp ed nÁÁaiculoser y acifÁtneic nÁÁaicagitsevni al ne sedadililah y otnemiconoc. socifÁcepsce sovitejbo setneugiis sol neneit sacisÁf saicneic sal. otnemucod anuginn ne on orep. 21 y 11. 01 odarg le ne satreibuc nÁÁtse otnemiconoc ed saerjÁ sal. omsitengam y aregill acirteÁAle y odinos. acinjÁcem ed sadnO socimÁuq sotcudorp ed obmaC socimÁuq sametsS selairetam y selairetaM. serasehT. socinjÁgro sotesupnoco ed senoicaer ed somot121. ocirÁmuS242. 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