

1. Chapter 19

a. The Doppler Effect

- i. Wave phenomenon that can be used to determine how an object moves
- ii. Sound: shift in **pitch** as source of sound approaches or recedes
- iii. Light: shift in **color** as source approaches or recedes.
- iv. Source moves toward observer: frequency higher compared to rest frequency
  1. Blueshift
- v. Source moves away from observer: frequency lowers compared to rest frequency
  1. Redshift
- vi. Amount of shift depends **directly** on the speed
  1. Faster speed = greater shift
- vii. Direction of shift tells us if source is moving towards or away from us
  1. How fast it's moving from the amount of the shift
- viii. Doppler Effect only happens if motion is along the line of sight
  1. Observer can't detect Doppler Effect if perpendicular from us

b.

Gamma Rays	X-Ray	UV	VIBGYOR	IR	Radio
High frequency		← blue (brighter, louder)			low frequency
Short wavelength		red (dimmer, softer) →			long wavelength

2. Chapter 22 (Electrostatics)

a. Properties of Electric Charges

- i. 2 types of charges exist
  1. positive and negative (opposites)
- ii. like charges repel and unlike charges attract one another
- iii. proton: basic carrier of positive charge ( $1.6 \times 10^{-19} \text{ A}$ )
  1. doesn't move from one material to another bc they are held firmly together in the nucleus
- iv. electron: basic carrier of negative charge ( $-1.6 \times 10^{-19} \text{ A}$ )
  1. gaining or losing electrons is how an object becomes charged
- v. electric charge is always conserved
  1. not created, only exchanged
  2. object becomes charged due to negative charge being transferred from one object to another
- vi. most objects tend to be neutral

b. Electric Forces

- i. Electrons in an atom
  1. Innermost: attracted strongly to oppositely charged nucleus
  2. Outermost: attracted loosely and can be easily dislodged
- ii. Coulomb's Law: the attractive or repulsive force between electric charges
  1.  $F = kq_1q_2/d^2$
  2.  $q_1$  and  $q_2$  are the charges of 2 particles
  3.  $d$  is the distance between them
  4.  $k$  is constant
- iii. Force depends on the product of the charges and is inversely proportional to the square of the distance between them
- iv. Properties
  1. Electrical force inversely proportional to the square of the separation between the 2 objects
  2. Proportional to the product of the magnitudes of the charges  $q_1$  and  $q_2$
  3. Attractive if the charges are of opposite sign and repulsive if the charges have the same sign

c. Conductors, Semiconductors, Insulators

- i. Conductors
  1. Materials in which the electric charges move freely
  2. Copper, aluminum, and silver
  3. When a conductor is charged, the charge distributes over the entire surface of the material evenly
- ii. Semiconductors
  1. Characteristics are between those of insulators and conductors
  2. Silicon and germanium
- iii. Insulators
  1. Materials in which electrical charges do not move freely
  2. Glass and water

d. Electric Fields

- i. Electric Field Direction
  1. Direction of field defined to be the direction of the electric force that would be exerted on a small positive test charge placed at that point
  2. Electric field produced by negative charge is directed toward the charge
  3. Electric field produced by positive charge is directed away from the charge

# High School Physics Final Exam Study Guide

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right. 70. AB Calculus - Step-by-Step Name Stu Schwartz. 70. AB Calculus - Step-by-Step. Name ... Describe the region in the xy-plane in which all the solutions to the differential equation are concave ... ABReview Stu Schwartz AB Calculus Exam - Review Sheet - Solutions. A. Precalculus Type problems ...  $f(x)$ . Step 1: Find  $f'(x)$ . If you get a zero in the denominator, Step 2 ... Diff EQ Practice.pdf - 70. AB Calculus - Step-by-Step Name View Diff\_EQ\_Practice.pdf from MATH 1300 at Brooklyn College, CUNY. 70. AB Calculus - Step-by-Step Name \_ Consider the differential equation  $dy/dx + 1 = y$  ... AB Calculus Manual (Revised 12/2019) This manual can easily replace an expensive textbook. Teachers teach right from it and students write in it. The Solution Manual is exactly the same as the ... AB Calculus - Step-by-Step - 24. Function Analysis There is a relative maximum at  $x=2$  as  $f'$  switches from positive to negative. b. On what intervals is the graph of  $f$  concave upward? Justify your answers. (2). img-X26071655-0001 - 24. AB Calculus Step-by- ... View img-X26071655-0001 from MATH 2215 at Cameron University. 24. AB Calculus Step-by-Step Name The figure to the right shows the graph of  $f$ , the derivative ... MasterMathMentor AB31 - Definite Integrals with u-Substitution MMM AB Calculus MasterMath Mentor AB0102 - Intro to Calculus / Tangent line problem. Stu Schwartz · 28:56. MasterMathMentor AB03 - Rates of Change. Volvo I-Shift Automated Manual Transmission The Volvo I shift transmission uses road grade, speed, weight, and engine load to gauge the optimum time for switching gears to increase fuel efficiency. 2017-i-shift-product-guide.pdf So regardless of experience or training, I-Shift helps every driver become more fuel-efficient. An automated manual transmission with digital intelligence. Volvo I-Shift The Volvo I-Shift is an automated manual transmission developed by Volvo subsidiary Volvo Powertrain AB for Volvo Trucks and Volvo Buses, with 12 forward gears ... Coach operator TransAcácia Turismo's I-Shift journey Nov 10, 2021 — TransAcácia Turismo explains how I-Shift, Volvo's innovative automated transmission, has positively impacted its operations over the years. Volvo introduces new I-Shift transmission features The new transmission features will bolster performance of the Volvo VHD in paving applications, the company said. "Auto neutral and Paver Assist mark the latest ... The automated transmission that improved driver comfort The I-Shift automated manual transmission improved fuel efficiency and driver comfort. The first Volvo truck ever sold - the Series 1 in 1928 - had features ... Mazda F8 Engine 1800cc correct timing marks and setup ... Aug 22, 2009 — Hi,. From my information the timing procedure with that engine are as follows: The crankshaft is aligned at the 12 o'clock position where ... timing belt..The timing marks on the cam pulley is A or B Oct 6, 2008 — I replaced the timing belt on a 1800 Mazda F8 engine. The timing marks on the cam pulley is A or B or CX. Which of these are the correct ... Ignition Timing Ignition timing is adjusted by turning the distributor body in the engine. Ideally, the air/fuel mixture in the cylinder will be ignited by the spark plug ... 104RU25 Timing Belt F8 104RU25 Timing Belt F8 ; SKU: 104RU25 ; Brand. SORA ; Description · A390RU100 MAZDA Bongo 05.99~09.10 SK82M Eng: 1.8L F8 08.95~05.99 SE88T Eng: 1.8L F8 05.99~09.10 ... endurotec etkmaf61 timing belt kit mazda f8 sohc 8v 12/78 ... ENDUROTEC ETKMAF61 TIMING BELT KIT MAZDA F8 SOHC 8V 12/78 TO 12/86 106 TOOTH BELT · Description. Includes 106 round teeth timing belt

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