

ADVANCED PLACEMENT PHYSICS I EQUATIONS, EFFECTIVE 2015

CONSTANTS AND CONVERSION FACTORS

Proton mass, $m_p = 1.67 \times 10^{-27}$ kg	Electron charge magnitude, $e = 1.60 \times 10^{-19}$ C
Neutron mass, $m_n = 1.67 \times 10^{-27}$ kg	Coulomb's law constant, $k = 1/4\pi\epsilon_0 = 9.0 \times 10^9$ N·m ² /C ²
Electron mass, $m_e = 9.11 \times 10^{-31}$ kg	Universal gravitational constant, $G = 6.67 \times 10^{-11}$ m ³ /kg·s ²
Speed of light, $c = 3.00 \times 10^8$ m/s	Acceleration due to gravity at Earth's surface, $g = 9.8$ m/s ²

UNIT SYMBOLS	meter, m	kelvin, K	watt, W	degree Celsius, °C
	kilogram, kg	hertz, Hz	coulomb, C	
	second, s	newton, N	volt, V	
	ampere, A	joule, J	ohm, Ω	

PREFIXES

Factor	Prefix	Symbol
10^{12}	tera	T
10^9	giga	G
10^6	mega	M
10^3	kilo	k
10^{-2}	centi	c
10^{-3}	milli	m
10^{-6}	micro	μ
10^{-9}	nano	n
10^{-12}	pico	p

VALUES OF TRIGONOMETRIC FUNCTIONS FOR COMMON ANGLES

θ	0°	30°	37°	45°	53°	60°	90°
$\sin\theta$	0	1/2	3/5	$\sqrt{2}/2$	4/5	$\sqrt{3}/2$	1
$\cos\theta$	1	$\sqrt{3}/2$	4/5	$\sqrt{2}/2$	3/5	1/2	0
$\tan\theta$	0	$\sqrt{3}/3$	3/4	1	4/3	$\sqrt{3}$	∞

The following conventions are used in this exam.

- I. The frame of reference of any problem is assumed to be inertial unless otherwise stated.
- II. Assume air resistance is negligible unless otherwise stated.
- III. In all situations, positive work is defined as work done on a system.
- IV. The direction of current is conventional current: the direction in which positive charge would drift.
- V. Assume all batteries and meters are ideal unless otherwise stated.

Formulas For Grade 8 Science

J Dewey



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Logics in Computer Science Fabio Mogavero,2013-07-30 In this monograph we introduce and examine four new temporal logic formalisms that can be used as specification languages for the automated verification of the reliability of hardware and software designs with respect to a desired behavior The work is organized in two parts In the first part two logics for computations the graded computation tree logic and the computation tree logic with minimal model quantifiers are discussed These have proved to be useful in describing correct executions of monolithic closed systems The second part focuses on logics for strategies strategy logic and memoryful alternating time temporal logic which have been successfully applied to formalize several properties of interactive plays in multi entities systems modeled as multi agent games **The Science Teacher** ,1978 Some issues are accompanied by a CD ROM on a selected topic **Reading in the Science Classroom** Judith Bechtel,Bettie Franzblau,1980 Several practical methods by which the science teacher can easily incorporate reading instruction into the science curriculum without taking time away from teaching content **Science and Invention** ,1923 **Mathematics and Science Content Standards and Curriculum Frameworks** Rolf K. Blank,State Education Assessment Center (Council of Chief State School Officers),1997 The Council of Chief State School Officers CCSSO collaborating with Policy Studies Associates and a panel of experts in mathematics and science education has completed a study of states curriculum frameworks development and standards setting from 1994 The Council study analyzed the content and quality of state frameworks and standards documents and examined how states are working with local educators on implementation This report describes the changing landscape of framework development and standards setting in the United States and identifies emerging issues for practitioners and policy makers The study was conducted with three kinds of data concerning the current situation of state standards and frameworks in mathematics and science A concept mapping analysis of all state curriculum frameworks and standards documents in mathematics and science was completed In order to identify all current state documents works in progress and dissemination and implementation activities interviews were held with state mathematics and science education specialists With the aggregated information from these sources a report that focuses on current and emerging policy issues pertaining to the implementation of standards based reform in mathematics and science education was developed Contains 27 references Author ASK **Mathematics & Science in the Real World** ,2000 **50 Quick & Easy Science Computer Activities** Tammy Worcester,2007 Contains 50 classroom activities that enliven enhance and update your science lessons by integrating the resources and tools found on

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