

Unit 1 Test Study Guide (Geometry Basics)

Name: _____

Date: Jan 11, 2022

Per: 1

Topic 1: Points, Lines & Planes

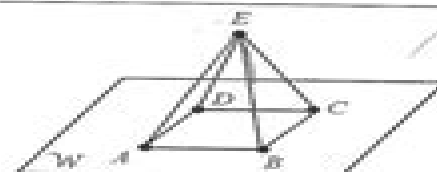
Use the diagram to the right to answer questions 1-4.

1. Name two points collinear to point K . J, L
2. Give another name for line b . HK
3. Name the intersection of line c and plane R . K
4. Name a point non-coplanar to plane R . N, M



Use the diagram to the right to answer questions 5-8.

5. How many planes are shown in the figure? 5
6. Give another name for plane W . plane DCB
7. Name the intersection of plane ADE and plane W . AD
8. Name a point non-collinear to points A and B . C



Topic 2: Segment Addition Postulate

9. If $DF = 42$, find DE .

$$\begin{array}{c} D \quad E \quad F \\ 7x+1 \quad 4x-3 \\ 7x+1+4x-3=42 \end{array}$$

$$11x - 2 = 42$$

$$11x = 44 \quad x = 4$$

$$DE = 7(4) + 1 = 29$$

10. In the diagram below, if $JL = 10x - 2$, $JK = 5x - 8$, and $KL = 7x - 12$, find KL .

$$\begin{array}{c} J \quad K \quad L \\ 10x-2 = 5x-8 + 7x-12 \\ 10x-2 = 12x-20 \\ 18 = 2x \\ x = 9 \end{array}$$

$$KL = 7(9) - 12 = 51$$

11. If S is the midpoint of RT , $RS = 5x + 17$, and $ST = 8x - 31$, find RS .

$$5x + 17 = 8x - 31$$

$$48 = 3x$$

$$x = 16$$

$$RS = 5(16) + 17 = 97$$

12. If line y bisects $\overline{AC}$, $AB = 4 - 5x$, and $BC = 2x + 25$, find AC .

$$\begin{array}{c} C \\ | \\ B \\ | \\ A \end{array}$$

$$4 - 5x = 2x + 25$$

$$4 = 7x + 25$$

$$-21 = 7x$$

$$x = -3$$

$$AB = 4 - 5(-3) = 19$$

$$AC = 2(19) = 38$$

13. If B is the midpoint of $\overline{AC}$, $AC = CD$, $AB = 3x + 4$, $BC = 11x - 17$, and $CE = 49$, find DE .



$$\begin{array}{c} 2(3x+4) = 11x-17 \\ 6x+8 = 11x-17 \\ 25 = 5x \\ x = 5 \end{array}$$

$$AC = 11(5) - 17 = 38$$

$$DE = 49 - 38 = 11$$

Geometry Cst Study Guide

Michael R. Lindeburg



Geometry Cst Study Guide:

Barron's Math 360: A Complete Study Guide to Geometry with Online Practice Barron's Educational Series, Lawrence S. Leff, Elizabeth Waite, 2021-09-07 Barron's math 360 provides a complete guide to the fundamentals of geometry Whether you are a student or just looking to expand your brain power this book is your go to resource for everything geometry

Mathematics National Learning Corporation, 2020-03-15 The Mathematics Calculus Ab Bc Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam PPI PE Civil Study Guide, 17th Edition Michael R. Lindeburg, 2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg's PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI's civil reference manuals The Study Guide is organized to make the most of your time and is an essential tool for a successful exam experience Relevant sections from the NCEES Handbook design standards and PPI's reference manuals are clearly indicated in both summary lists for each exam specification and in each of the detailed entries covering a specific concept or equation Referenced PPI Products PE Civil Reference Manual Structural Depth Reference Manual for the PE Civil Exam Construction Depth Reference Manual for the PE Civil Exam Transportation Depth Reference Manual for the PE Civil Exam Water Resources and Environmental Depth Reference Manual for the PE Civil Exam Referenced Codes and Standards 2015 International Building Code ICC A Policy on Geometric Design of Highways Streets AASHTO AASHTO Guide for Design of Pavement Structures AASHTO AASHTO LRFD Bridge Design Specifications Building Code Requirements Specification for Masonry Structures ACI 530 Building Code Requirements for Structural Concrete Commentary ACI 318 Design Construction of Driven Pile Foundations FHWA Design Construction of Driven Pile Foundations Volume I FHWA Design Control of Concrete Mixtures PCA Design Loads on Structures During Construction ASCE 37 Formwork for Concrete ACI SP 4 Foundations Earth Structures Design Manual 7 02 Geotechnical Aspects of Pavements FHWA Guide for the Planning Design Operation of Pedestrian Facilities AASHTO Guide to Design of Slabs on Ground ACI 360R Guide to Formwork for Concrete ACI 347R Highway Capacity Manual TRB Highway Safety Manual AASHTO Hydraulic Design of Highway Culverts FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features Structural Foundations Reference Manual FHWA Manual on Uniform Traffic Control Devices FHWA Minimum Design Loads for Buildings Other Structures ASCE SEI 7 National Design Specification for Wood Construction AWC Occupational Safety Health Regulations for the Construction Industry OSHA 1926 Occupational Safety Health Standards OSHA 1910 PCI Design Handbook Precast Prestressed Concrete PCI Recommended Standards for Wastewater

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