

Classify each triangle as *equilateral*, *isosceles*, or *scalene*.

3.  $\triangle ABD$

*equilateral*

4.  $\triangle BED$

*Isosceles*



For the triangle, find  $x$  and the measure of each side.

5.  $\triangle LMN$  is an isosceles triangle, with  $LM = LN$ ,  $LM = 3x - 2$ ,  $LN = 2x + 1$ , and  $MN = 5x - 2$ .



$$3x - 2 = 2x + 1$$

$$x = 3$$

#### 4.2 - Triangle Angle Sum (180 rule)

Find each measure.

6.  $m\angle 1$

$$180 - 101 = 79 \quad 180 - 76 = 104$$

7.  $m\angle 4$

$$180 - (65 + 70) = 45$$

8.  $m\angle 3$

$$180 - 115 = 65$$

9.  $m\angle 2$

$$36 + 65 = 101$$

*79*



#### 4.3 Congruent Triangles

Show that the triangles are congruent by identifying all congruent corresponding parts. Then write a congruence statement for the triangles.

10.



$$\begin{aligned} \overline{MN} &\cong \overline{PN} \\ \overline{ML} &\cong \overline{PQ} \\ \overline{LN} &\cong \overline{QN} \end{aligned}$$

$$\begin{aligned} \angle M &\cong \angle P \\ \angle L &\cong \angle Q \\ \angle MNL &\cong \angle PNQ \end{aligned}$$

$$\triangle MNL \cong \triangle PNQ$$

#### 4.4 - 4.5 Congruence Shortcuts

Identify the postulate or shortcut that can be used to prove the triangles are congruent.

11.



*SAS*

12.



*SSS*

# Geometry Hs Mathematics Unit 10 Lesson Answers

**M.  
Zweng, Green, Kilpatrick, Pollack, Suyda  
m**

## **Geometry Hs Mathematics Unit 10 Lesson Answers:**

*Resources in Education* ,2000      **Test Prep, High School** Carson-Dellosa Publishing Staff,Spectrum,Spectrum Staff,2001-03-06 Developed by experts experienced in high stakes testing American Education Publishing Test Prep provides the essential preparation that young learners need to achieve success on proficiency tests American Education Publishing Test Prep takes the mystery out of what to expect on test day by explaining strategies and techniques for answering different kinds of questions Multiple tests in reading math and language arts provide comprehensive practice in key subjects required for proficiency      *Everyday Mathematics* Max Bell,2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific      *Proceedings of the Fourth International Congress on Mathematical Education* M. Zweng,Green,Kilpatrick,Pollack,Suydam,2012-12-06 Henry O Pollak Chairman of the International Program Committee Bell Laboratories Murray Hill New Jersey USA The Fourth International Congress on Mathematics Education was held in Berkeley California USA August 10 16 1980 Previous Congresses were held in Lyons in 1969 Exeter in 1972 and Karlsruhe in 1976 Attendance at Berkeley was about 1800 full and 500 associate members from about 90 countries at least half of these come from outside of North America About 450 persons participated in the program either as speakers or as presiders approximately 40 percent of these came from the U S or Canada There were four plenary addresses they were delivered by Hans Freudenthal on major problems of mathematics education Hermina Sinclair on the relationship between the learning of language and of mathematics Seymour Papert on the computer as carrier of mathematical culture and Hua Loo Keng on popularising and applying mathematical methods George Polya was the honorary president of the Congress illness prevented his planned attendance but he sent a brief presentation entitled Mathematics Improves the Mind There was a full program of speakers panelists debates miniconferences and meetings of working and study groups In addition 18 major projects from around the world were invited to make presentations and various groups representing special areas of concern had the opportunity to meet and to plan their future activities      **ENC Focus** ,2001      **Innovative Curriculum Materials** ,1999      **Teacher's Edition for Scoring High on the Comprehensive Tests of Basic Skills** ,1991 This program for kindergarten through grade 8 includes practice in reading and mathematics familiarizes students with test formats and directions and teaches test taking strategies      **The Science Teacher's Toolbox** Tara C. Dale,Mandi S. White,2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher's Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise

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