

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. $m\angle 1$

$$180 - 101 - 76 = 180 - 176 = 104$$

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

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Table of Contents Geometry Problems And Answers Grade 9

1. Understanding the eBook Geometry Problems And Answers Grade 9
 - The Rise of Digital Reading Geometry Problems And Answers Grade 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Problems And Answers Grade 9
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Problems And Answers Grade 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Problems And Answers Grade 9
 - Personalized Recommendations
 - Geometry Problems And Answers Grade 9 User Reviews and Ratings
 - Geometry Problems And Answers Grade 9 and Bestseller Lists
5. Accessing Geometry Problems And Answers Grade 9 Free and Paid eBooks
 - Geometry Problems And Answers Grade 9 Public Domain eBooks
 - Geometry Problems And Answers Grade 9 eBook Subscription Services
 - Geometry Problems And Answers Grade 9 Budget-Friendly Options
6. Navigating Geometry Problems And Answers Grade 9 eBook Formats

- ePub, PDF, MOBI, and More
- Geometry Problems And Answers Grade 9 Compatibility with Devices
- Geometry Problems And Answers Grade 9 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Problems And Answers Grade 9
 - Highlighting and Note-Taking Geometry Problems And Answers Grade 9
 - Interactive Elements Geometry Problems And Answers Grade 9
- 8. Staying Engaged with Geometry Problems And Answers Grade 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Problems And Answers Grade 9
- 9. Balancing eBooks and Physical Books Geometry Problems And Answers Grade 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Problems And Answers Grade 9
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Geometry Problems And Answers Grade 9
 - Setting Reading Goals Geometry Problems And Answers Grade 9
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Geometry Problems And Answers Grade 9
 - Fact-Checking eBook Content of Geometry Problems And Answers Grade 9
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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