

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

Analytic Geometry Unit 6 Modeling Geometry Worksheet Answers

Michael Hoelscher



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