

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. $m\angle 1$

$$180 - 101 = 79$$

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.



$$\begin{aligned} \overline{MN} &\cong \overline{PN} \\ \overline{NL} &\cong \overline{NQ} \\ \angle MNL &\cong \angle PNQ \end{aligned}$$

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

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

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 Tesccc Unit 18

The Princeton Review, Heidi Torres



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