

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.



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

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

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

#### 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 Unit 3 Lesson 5 Activity 3

**G Orfield**



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