

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.

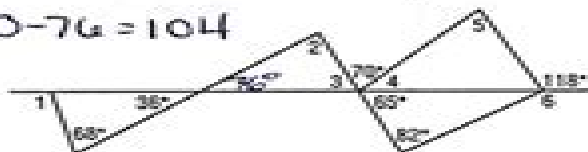
6. $m\angle 1$ ~~$180 - 101 = 79$~~ $180 - 76 = 104$

7. $m\angle 4$ $180 - (65 + 70) = 45$

8. $m\angle 3$ $180 - 115 = 65$

9. $m\angle 2$ $36 + 65 = 101$

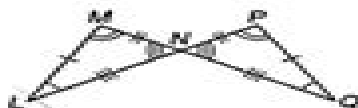
79



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.



$$\overline{MN} \cong \overline{PN}$$

$$\overline{LN} \cong \overline{QN}$$

$$\angle MNL \cong \angle PNQ$$

$$\angle M \cong \angle P$$

$$\angle L \cong \angle Q$$

$$\angle MNL \cong \angle PNQ$$

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

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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Judd E. Hollander



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