

When the sides of a triangle are extended, other angles are formed.

The three original angles of the triangle are <u>interior angles</u>. • The angles that are adjacent to the interior angles are the <u>exterior angles</u>. •

Exterior Angle Theorem: The measure of an exterior angle of a triangle is equal to the sum of the measures of the two <u>nonadjacen</u>t interior angles.

21+22=23

Checkpoint at the bottom of page 181. 4. 60+60 = mL2 5. 125+30 = mL3 $120^{\circ} = mL2$ $155^{\circ} = mL3$



 $m \ge 1 + 37 = 92$ 37 - 37 $m \ge 55^{\circ}$

