Question

Find the measure of Angle 3.
measure of angle 1 = x
measure of angle 2 = x-6

Solution

These angles are the angles in the triangle. Then

$$m\angle1 + m\angle2 + m\angle3 = 180°$$

Substitute

$$x + x - 6 + m\angle3 = 180$$
$$m\angle3 = (186 - 2x)°$$

$m\angle3 = (186 - 2x)°, 6° < x < 93°.$