

Exterior and Interior Angles of a Triangle

*Hint: All interior angles in a triangle add to equal 180°.

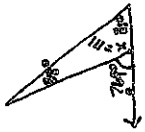
Ex:

$$38 + 31 + x = 180$$

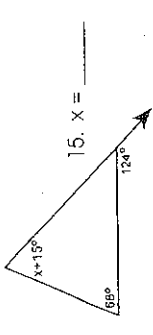
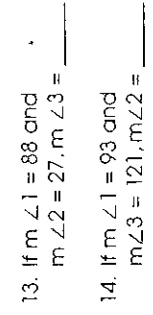
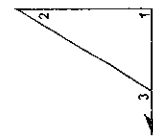
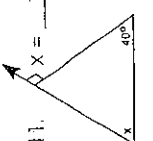
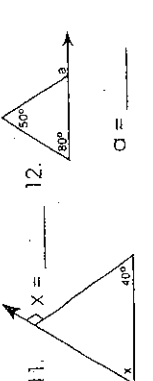
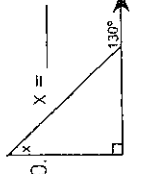
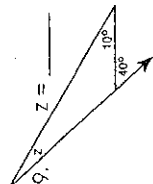
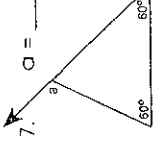
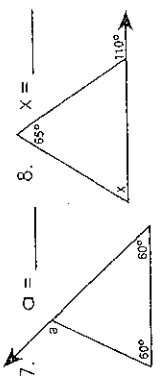
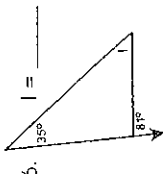
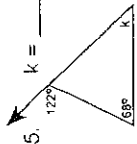
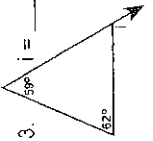
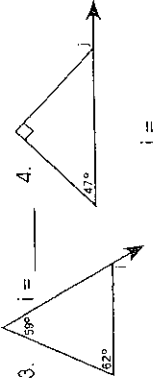
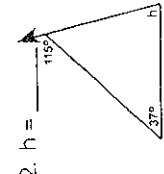
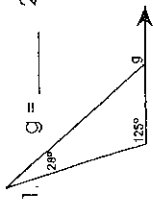
$$69 + x = 180$$

$$-69 \quad -69$$

$$x = 111$$



Find the measures of the angles indicated.



Interior Angles of a Triangle

For any \triangle $x + y + z = 180^\circ$

$m\angle 1 + 65 + 36 = 180^\circ$

$m\angle 1 + 101 = 180^\circ$

$m\angle 1 = 79^\circ$

