ACTIVITY FOR IHURSDAY.14.05. 2020 Find the value of the un known angles



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Exterior Angle sum of A triangle.
NB. The exterior angle sum of a triangle is $360^{\circ}$
Example 1:
Find the value of $n$.

$$
\left\lvert\, \begin{gathered}
n+139^{\circ}+120^{\circ}=360^{\circ} \\
n+259^{\circ}=360^{\circ} \\
n+259^{\circ}-259=360^{\circ}-259^{\circ} \\
n+0=101^{\circ} \\
n=101^{\circ}
\end{gathered}\right.
$$

Example 11: Find the size of angle $x$


$$
\left\lvert\, \begin{aligned}
& 3 x+10^{\circ}+x+40^{\circ}+2 x+10^{\circ}=360^{\circ} \\
& 3 x+x+2 x+10^{\circ}+40^{\circ}+10^{\circ}=360^{\circ} \\
& 6 x+60^{\circ}=360^{\circ} \\
& 6 x+60^{\circ}-60^{\circ}=360^{\circ}-80^{\circ} \\
& 6 x+0=300^{\circ} \\
& \frac{6 x}{6}=\frac{300^{\circ}}{6} \\
& x=50^{\circ}
\end{aligned}\right.
$$

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b)

$$
131^{\circ}+128^{\circ}+y=360^{\circ}
$$



$$
259^{\circ}+y=360^{\circ}
$$

$$
259^{\circ}-259^{\circ}+y=360^{\circ}-259^{\circ}
$$

$0+y=101^{\circ}$

$$
y=101^{\circ}
$$

c) | $3 x+4 x+2 x=360^{\circ}$ |
| :--- |
| $\frac{9 x}{9}=\frac{360^{\circ}}{9}$ |
| $x=40^{\circ}$ |

