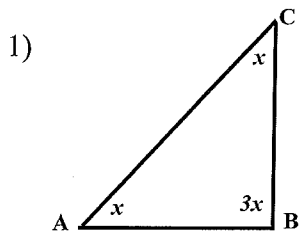


12.6 WORKSHEET

Name _____

SUM OF THE INTERIOR ANGLES OF A TRIANGLE

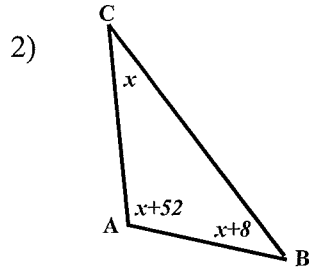
Directions: Solve for x in each of the triangles below. The Triangle Sum Theorem states that the interior angles of a triangle always add up to 180° . Your first step should be to set up an equation where the sum of the angles adds up to 180° . Solve the equation for x , then plug that value back in to the expressions to find the measure of the missing angles.



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

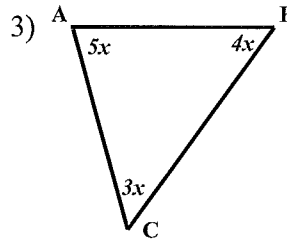
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

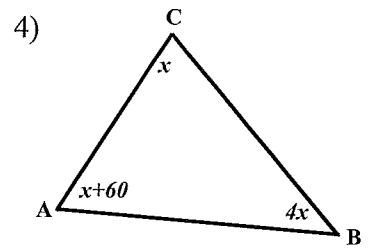
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

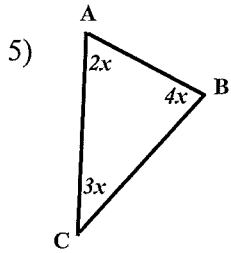
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

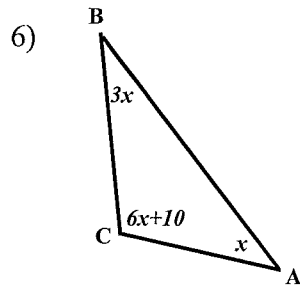
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

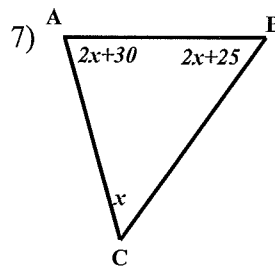
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

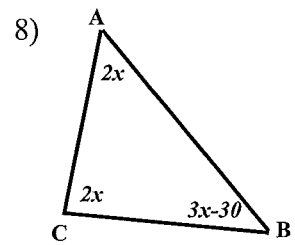
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

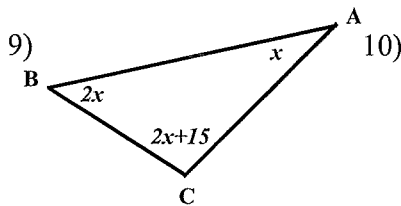
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

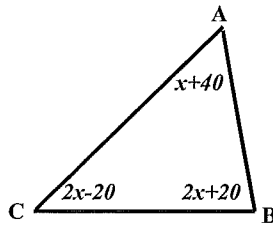
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

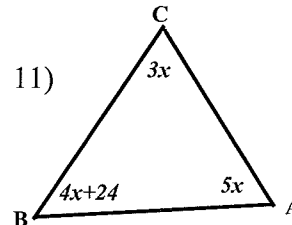
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

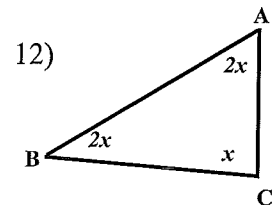
$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

$\angle C = \underline{\hspace{2cm}}$



$\angle A = \underline{\hspace{2cm}}$

$x = \underline{\hspace{2cm}}$ $\angle B = \underline{\hspace{2cm}}$

$\angle C = \underline{\hspace{2cm}}$