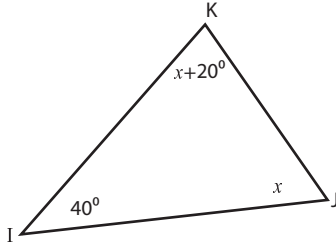


Name : \_\_\_\_\_

**Triangle - Interior Angle**

MS1

Example:



**Sum of the interior angles = 180°**

Sum of the interior angles =  $40^\circ + x + 20^\circ + x$

$180^\circ = 60^\circ + 2x$

$2x = 180^\circ - 60^\circ = 120^\circ$

$x = \frac{120^\circ}{2} = 60^\circ$

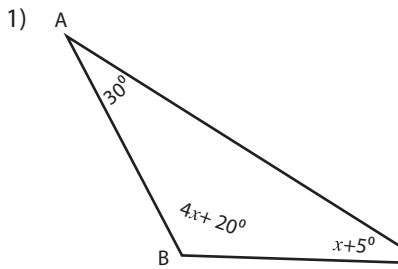
$\angle K = x + 20^\circ$

$\angle K = 60^\circ + 20^\circ$

$\angle K = 80^\circ$

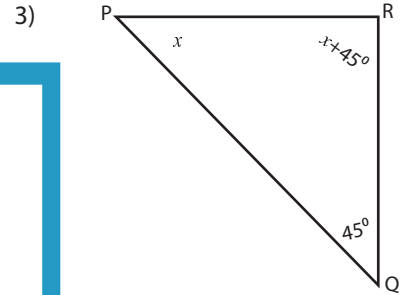
$\angle J = 60^\circ$

Find the value of x and unknown interior angles for each triangle.



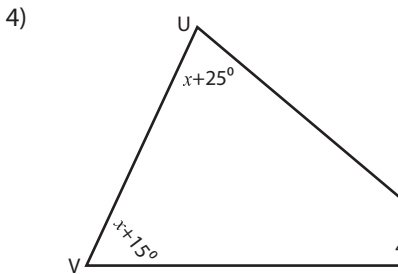
$x = \underline{\hspace{2cm}}$

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



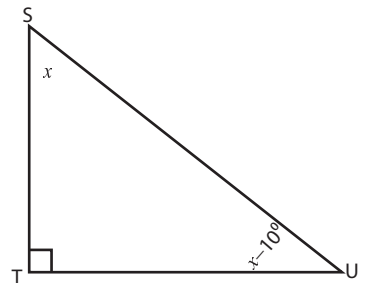
$x = \underline{\hspace{2cm}}$

$\angle P = \underline{\hspace{2cm}}$  ;  $\angle R = \underline{\hspace{2cm}}$



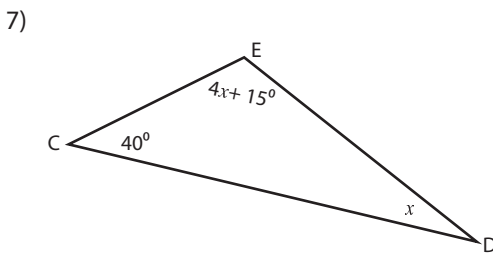
$x = \underline{\hspace{2cm}}$

$\angle U = \underline{\hspace{2cm}}$  ;  $\angle V = \underline{\hspace{2cm}}$



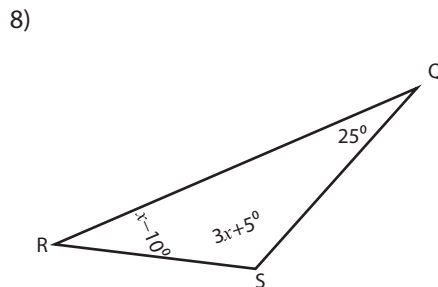
$x = \underline{\hspace{2cm}}$

$\angle S = \underline{\hspace{2cm}}$  ;  $\angle U = \underline{\hspace{2cm}}$



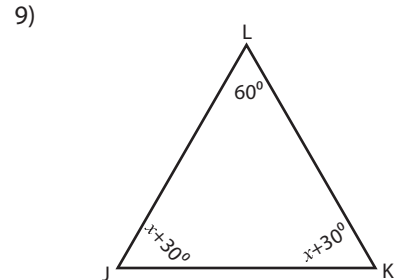
$x = \underline{\hspace{2cm}}$

$\angle D = \underline{\hspace{2cm}}$  ;  $\angle E = \underline{\hspace{2cm}}$



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

$\angle R = \underline{\hspace{2cm}}$  ;  $\angle S = \underline{\hspace{2cm}}$



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

$\angle J = \underline{\hspace{2cm}}$  ;  $\angle K = \underline{\hspace{2cm}}$

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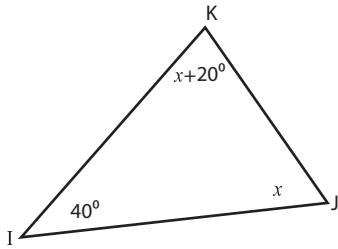
Name : \_\_\_\_\_

**Answer key**

**Triangle - Interior Angle**

MS1

Example:



**Sum of the interior angles =  $180^\circ$**

Sum of the interior angles =  $40^\circ + x + 20^\circ + x$

$180^\circ = 60^\circ + 2x$

$2x = 180^\circ - 60^\circ = 120^\circ$

$x = \frac{120^\circ}{2} = 60^\circ$

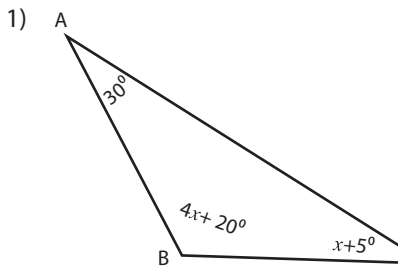
$\angle K = x + 20^\circ$

$\angle K = 60^\circ + 20^\circ$

$\angle K = 80^\circ$

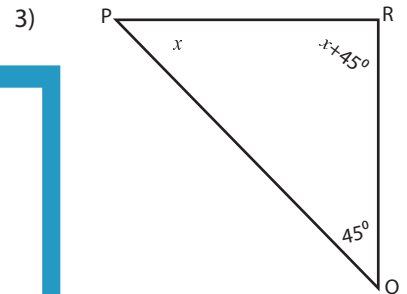
$\angle J = 60^\circ$

Find the value of x and unknown interior angles for each triangle.



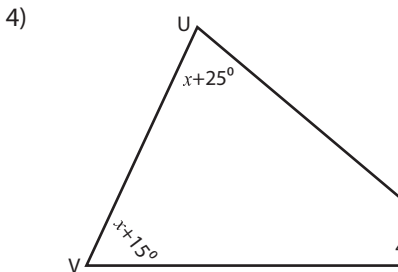
$x = 25^\circ$

$\angle B = 120^\circ$  ;  $\angle C = 30^\circ$



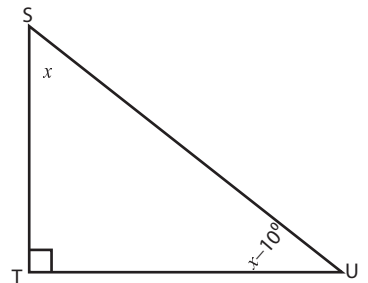
$x = 45^\circ$

$\angle P = 45^\circ$  ;  $\angle R = 90^\circ$



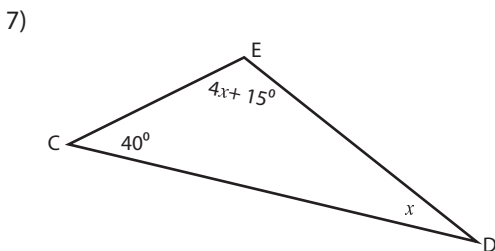
$x = 50^\circ$

$\angle U = 75^\circ$  ;  $\angle V = 65^\circ$



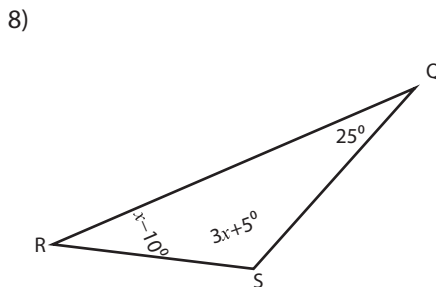
$x = 50^\circ$

$\angle S = 50^\circ$  ;  $\angle U = 40^\circ$



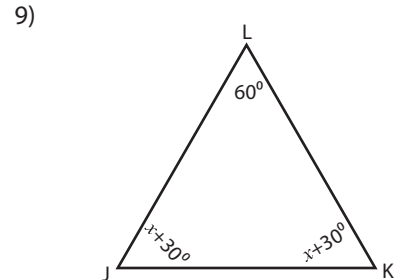
$x = 25^\circ$

$\angle D = 25^\circ$  ;  $\angle E = 115^\circ$



$x = 40^\circ$

$\angle R = 30^\circ$  ;  $\angle S = 125^\circ$



$x = 30^\circ$

$\angle J = 60^\circ$  ;  $\angle K = 60^\circ$

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