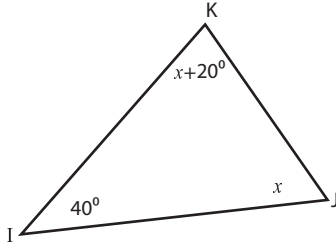


Name : _____

Triangle - Interior Angle

MS3

Example:



Sum of the interior angles = 180°

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

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

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

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

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

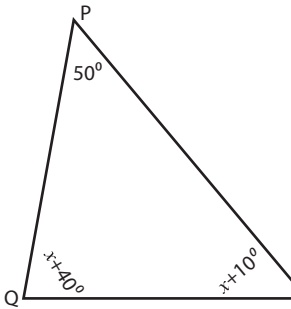
$\angle K = 60^\circ + 20^\circ$

$\angle K = 80^\circ$

$\angle J = 60^\circ$

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

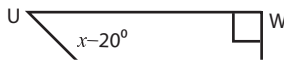
1)



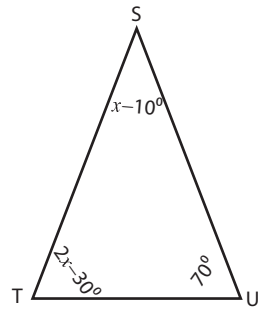
$x = \underline{\hspace{2cm}}$

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

2)



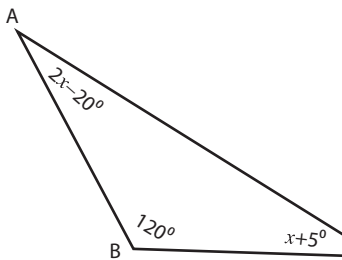
3)



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

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

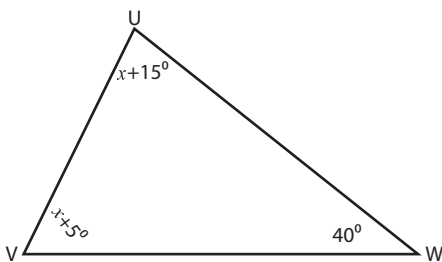
4)



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

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

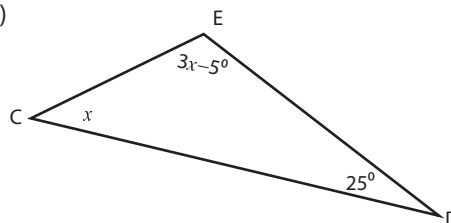
7)



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

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

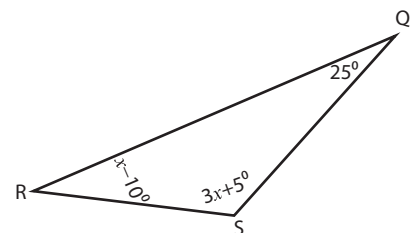
8)



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

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

9)



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

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

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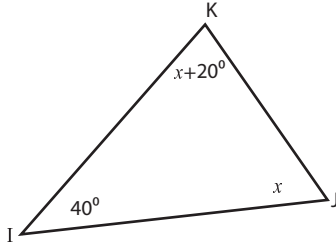
Name : _____

Answer key

Triangle - Interior Angle

MS3

Example:



Sum of the interior angles = 180°

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

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

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

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

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

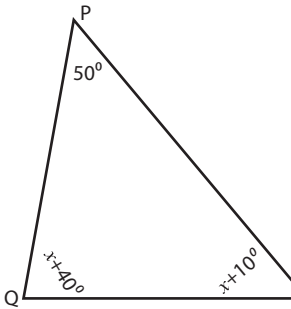
$\angle K = 60^\circ + 20^\circ$

$\angle K = 80^\circ$

$\angle J = 60^\circ$

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

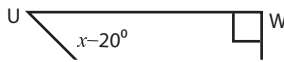
1)



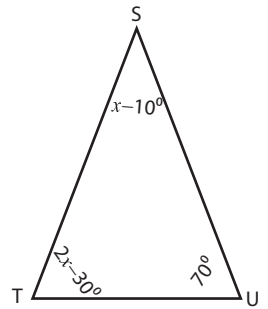
$x = 40^\circ$

$\angle Q = 80^\circ$; $\angle R = 50^\circ$

2)



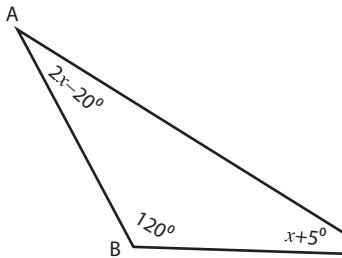
3)



$x = 50^\circ$

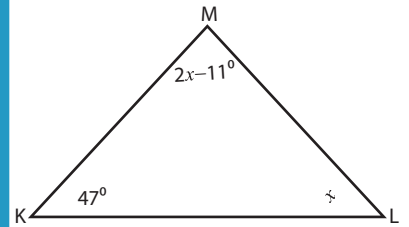
$\angle S = 40^\circ$; $\angle T = 70^\circ$

4)



$x = 25^\circ$

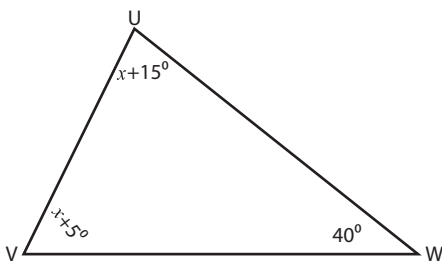
$\angle A = 30^\circ$; $\angle C = 30^\circ$



$x = 48^\circ$

$\angle L = 48^\circ$; $\angle M = 85^\circ$

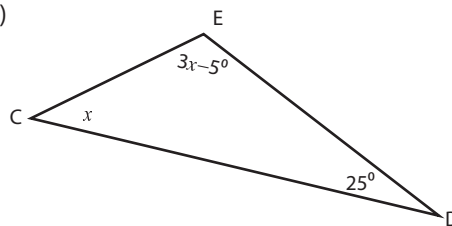
7)



$x = 60^\circ$

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

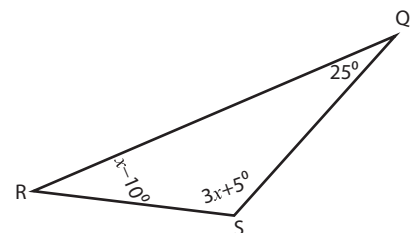
8)



$x = 40^\circ$

$\angle C = 40^\circ$; $\angle E = 115^\circ$

9)



$x = 40^\circ$

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

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