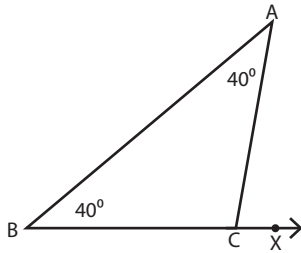


Triangle-Exterior Angle

The measure of an exterior angle of a triangle is equal to sum of the measures of opposite interior angles.



Exterior angle : $\angle ACX$

Opposite interior angles : $\angle A$ and $\angle B$

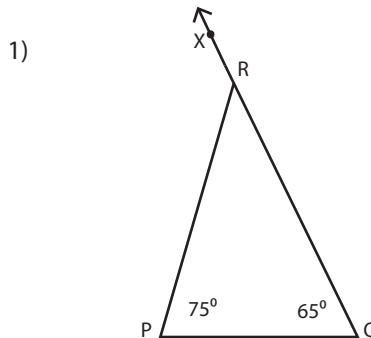
Exterior angle = Sum of opposite interior angles

$$\angle ACX = \angle A + \angle B$$

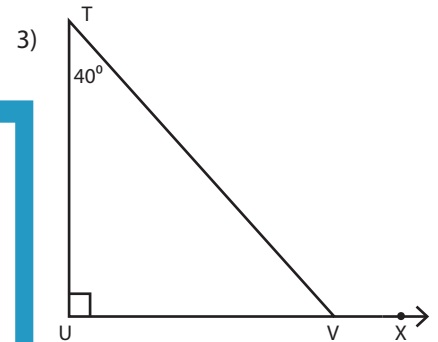
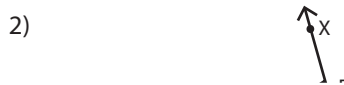
$$\angle ACX = 40^\circ + 40^\circ$$

$$\angle ACX = 80^\circ$$

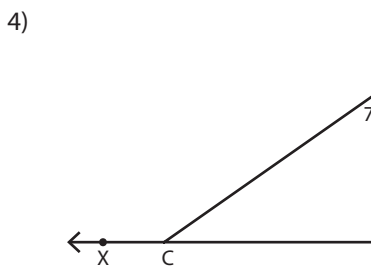
Find the unknown exterior angle for each triangle.



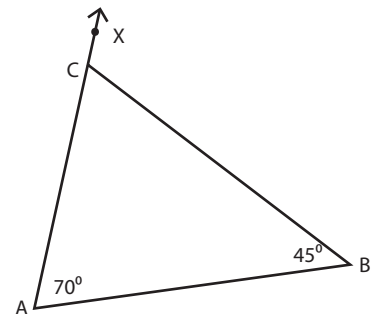
$\angle PRX =$



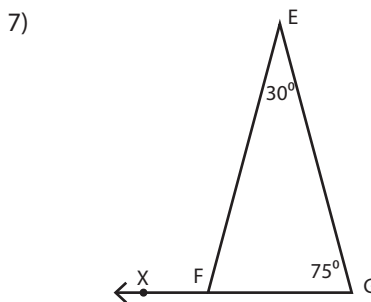
$\angle TVX =$



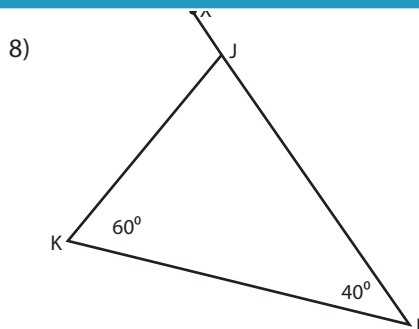
$\angle BCX =$



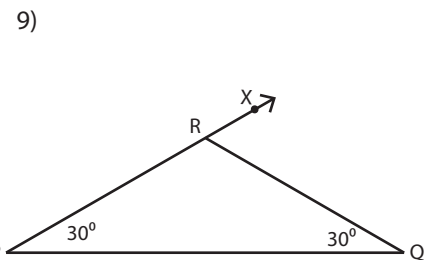
$\angle BCX =$



$\angle EFX =$



$\angle KJX =$



$\angle QRX =$

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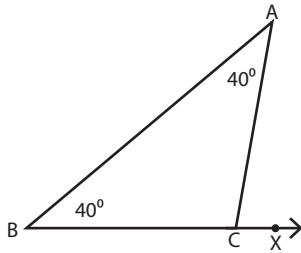
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Triangle-Exterior Angle

The measure of an exterior angle of a triangle is equal to sum of the measures of opposite interior angles.



Exterior angle : $\angle ACX$

Opposite interior angles : $\angle A$ and $\angle B$

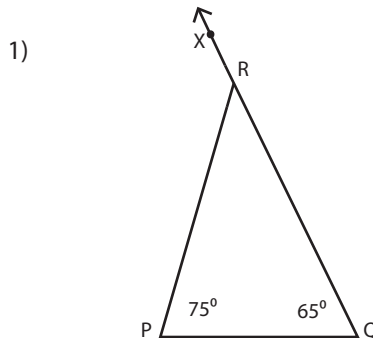
Exterior angle = Sum of opposite interior angles

$$\angle ACX = \angle A + \angle B$$

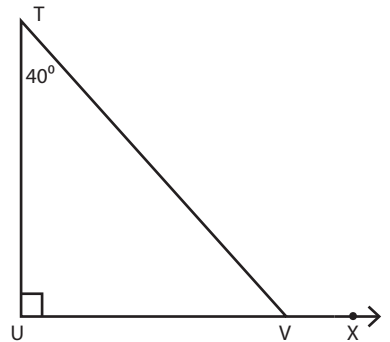
$$\angle ACX = 40^\circ + 40^\circ$$

$$\angle ACX = 80^\circ$$

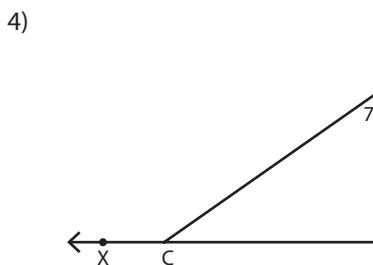
Find the unknown exterior angle for each triangle.



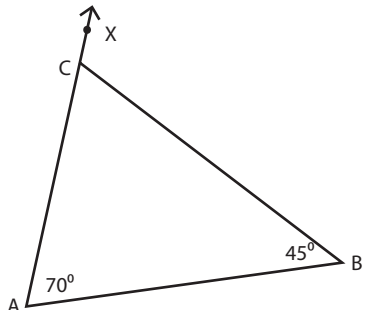
$$\angle PRX = 140^\circ$$



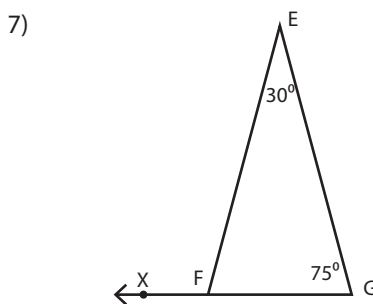
$$\angle TVX = 130^\circ$$



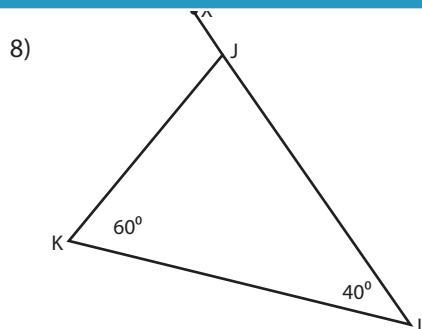
$$\angle BCX = 115^\circ$$



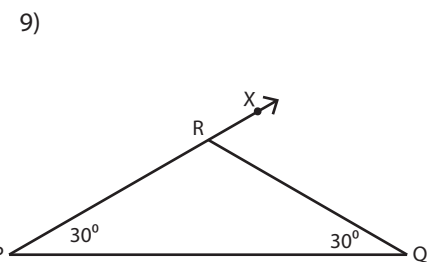
$$\angle BCX = 115^\circ$$



$$\angle EFX = 105^\circ$$



$$\angle KJX = 100^\circ$$



$$\angle QRX = 60^\circ$$

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