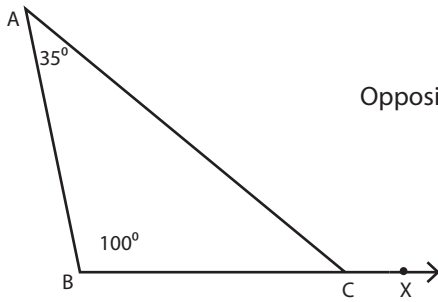


Triangle-Exterior Angle

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

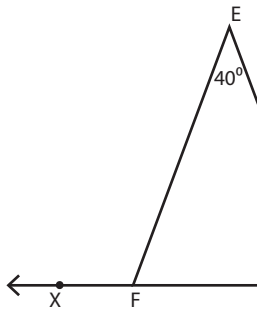
$$\angle ACX = \angle A + \angle B$$

$$\angle ACX = 100^\circ + 35^\circ$$

$$\angle ACX = 135^\circ$$

Find the unknown exterior angle for each triangle.

1)

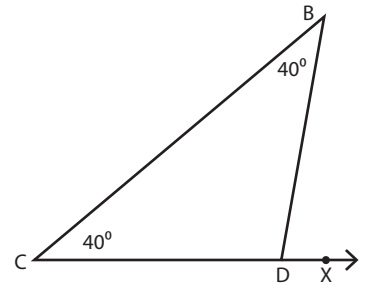


$\angle EFX =$

2)

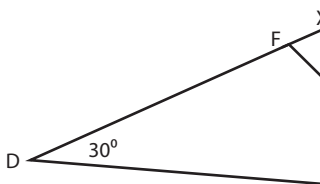


3)



$\angle BDX =$

4)



$\angle EFX =$

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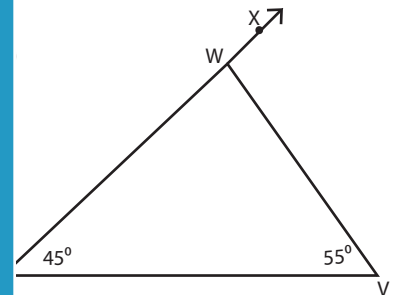
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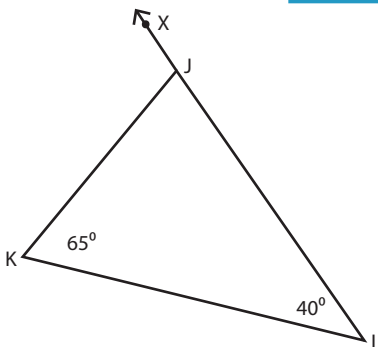
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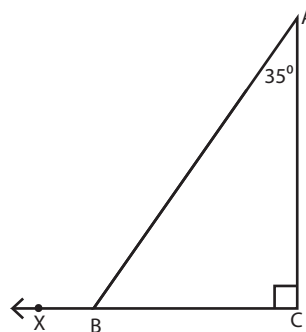
$\angle VWX =$

7)



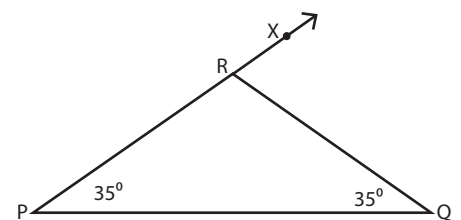
$\angle KJX =$

8)



$\angle ABX =$

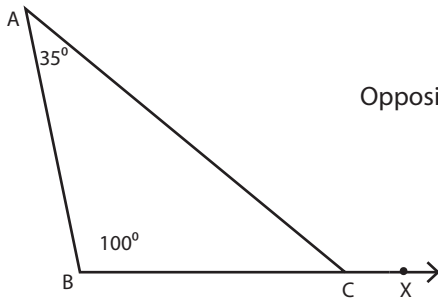
9)



$\angle QRX =$

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

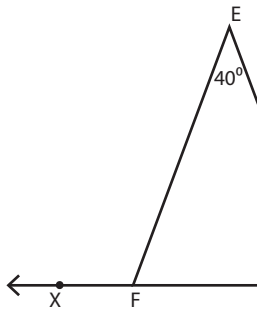
$$\angle ACX = \angle A + \angle B$$

$$\angle ACX = 100^\circ + 35^\circ$$

$$\angle ACX = 135^\circ$$

Find the unknown exterior angle for each triangle.

1)

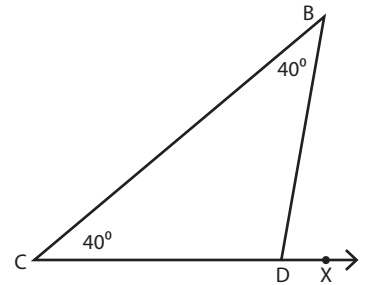


$$\angle EFX = 110^\circ$$

2)

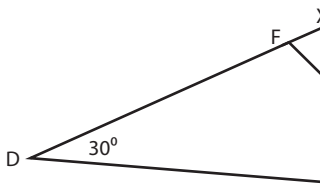


3)



$$\angle BDx = 80^\circ$$

4)



$$\angle DFX = 70^\circ$$

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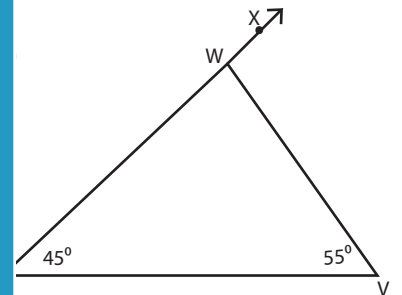
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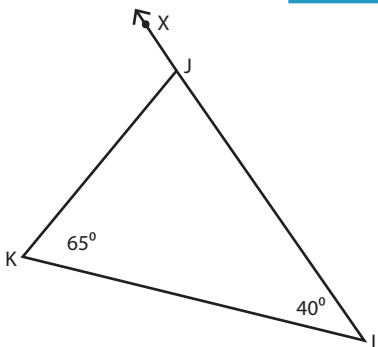
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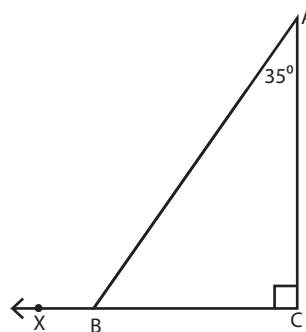
$$\angle VWX = 100^\circ$$

7)



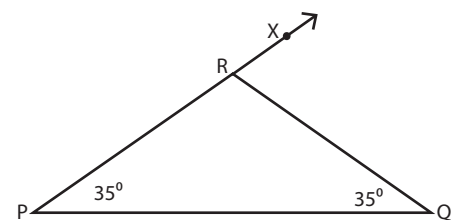
$$\angle KJX = 105^\circ$$

8)



$$\angle ABX = 125^\circ$$

9)



$$\angle QRX = 70^\circ$$