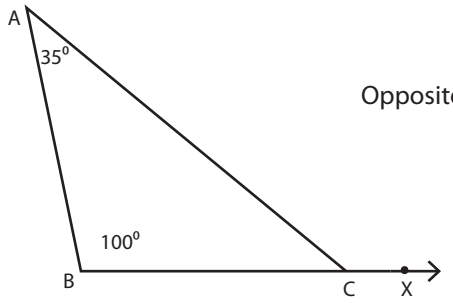
Name : _____

Sheet 1

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 : ∠ACX

Opposite interior angles : ∠A and ∠B

Exterior angle = Sum of opposite interior angles

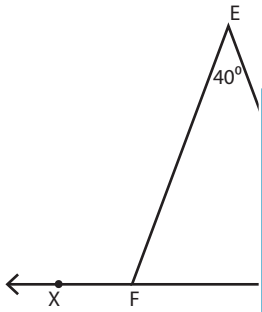
∠ACX = ∠A + ∠B

∠ACX = $100^0 + 35^0$

∠ACX = **135^0**

Find the unknown exterior angle for each triangle.

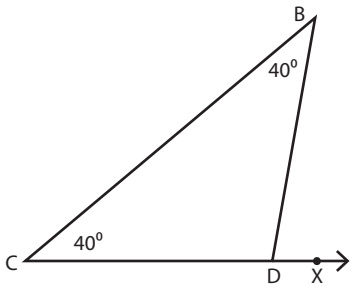
1)



∠EFX = _____

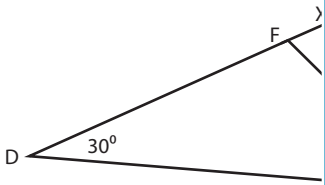
2)

3)

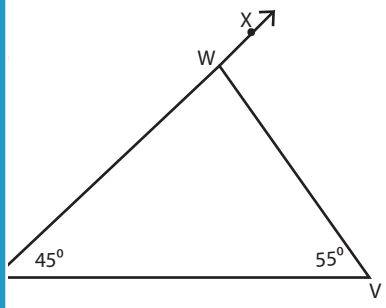


∠BDX = _____

4)

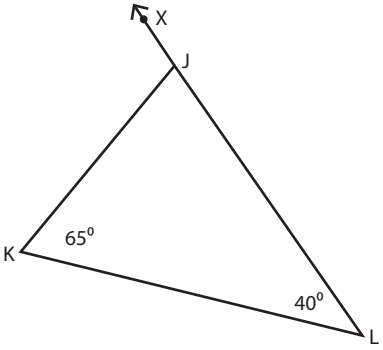


∠EFX = _____



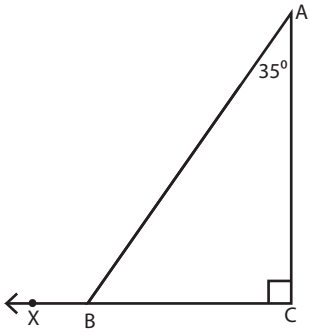
∠VWX = _____

7)



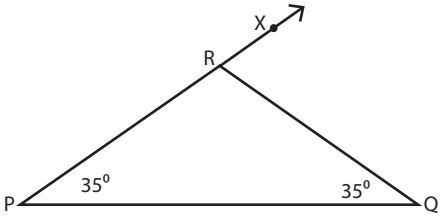
∠KJX = _____

8)



∠ABX = _____

9)



∠QRX = _____

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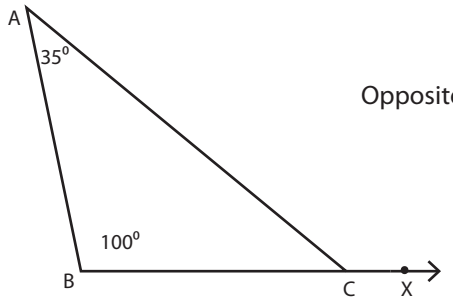
Name : _____

Answer key

Sheet 1

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 : ∠ACX

Opposite interior angles : ∠A and ∠B

Exterior angle = Sum of opposite interior angles

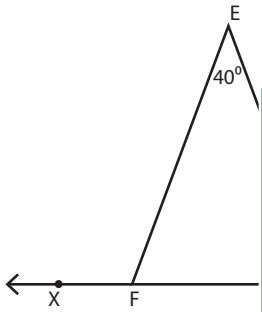
∠ACX = ∠A + ∠B

∠ACX = $100^0 + 35^0$

∠ACX = **135^0**

Find the unknown exterior angle for each triangle.

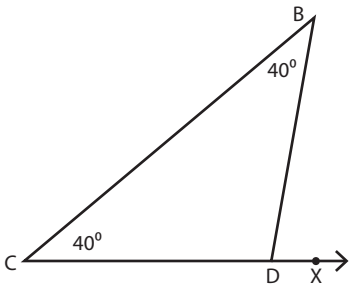
1)



∠EFX = **110^0**

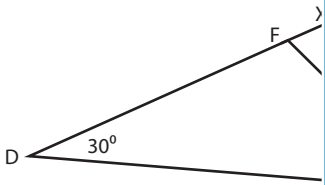
2)

3)

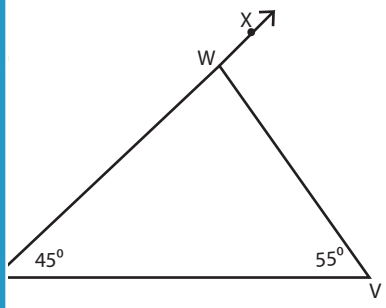


∠BDX = **80^0**

4)

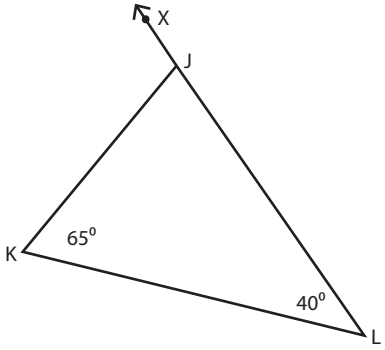


∠EFX = **70^0**



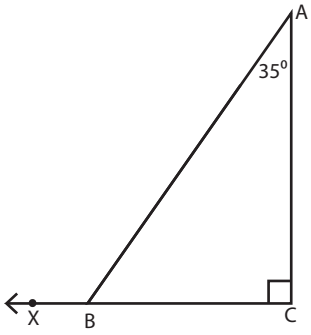
∠VWX = **100^0**

7)



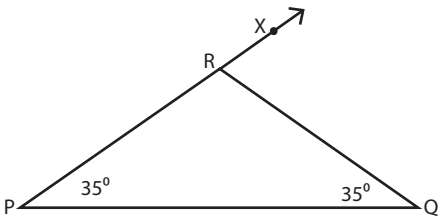
∠KJX = **105^0**

8)



∠ABX = **125^0**

9)



∠QRX = **70^0**

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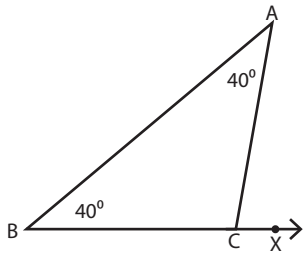
Sheet 2

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 : ∠ACX

Opposite interior angles : ∠A and ∠B

Exterior angle = Sum of opposite interior angles

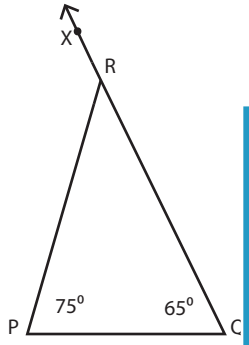
∠ACX = ∠A + ∠B

∠ACX = $40^0 + 40^0$

∠ACX = **80^0**

Find the unknown exterior angle for each triangle.

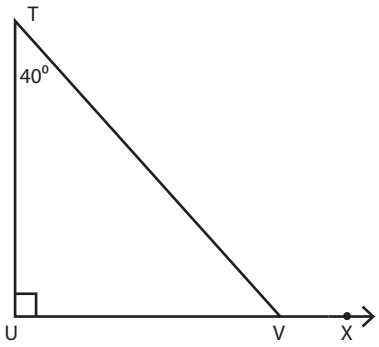
1)



∠PRX = _____

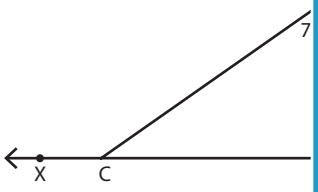
2)

3)

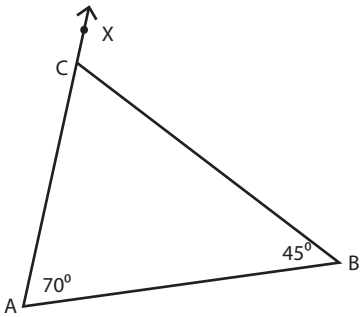


∠TVX = _____

4)

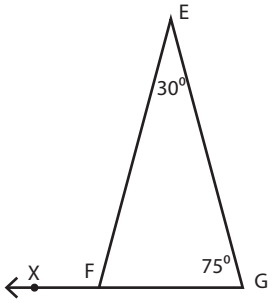


∠BCX = _____



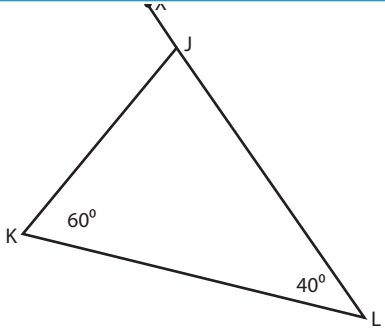
∠BCX = _____

7)



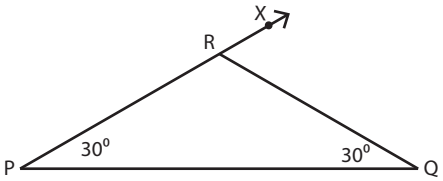
∠EFX = _____

8)



∠KJX = _____

9)



∠QRX = _____

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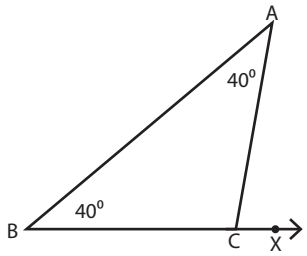
Answer key

Sheet 2

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 : ∠ACX

Opposite interior angles : ∠A and ∠B

Exterior angle = Sum of opposite interior angles

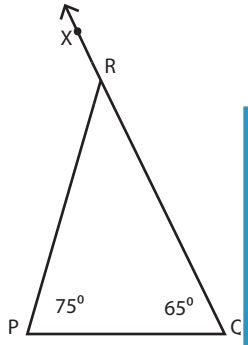
∠ACX = ∠A + ∠B

∠ACX = $40^0 + 40^0$

∠ACX = **80^0**

Find the unknown exterior angle for each triangle.

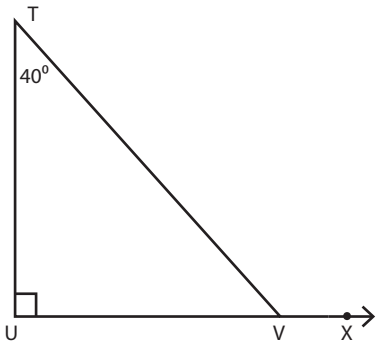
1)



∠PRX = **140^0**

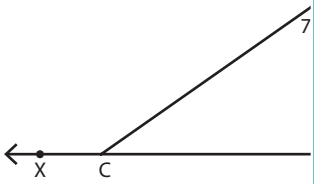
2)

3)

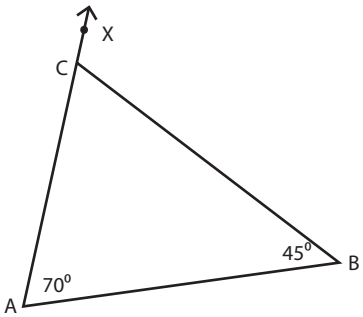


∠TVX = **130^0**

4)

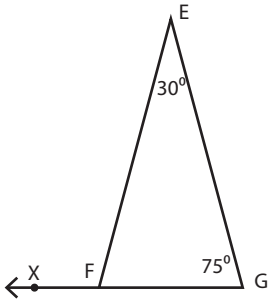


∠BCX = **145^0**



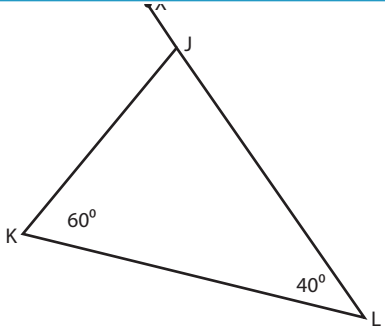
∠BCX = **115^0**

7)



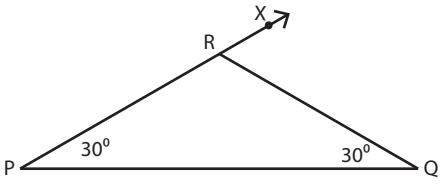
∠EFX = **105^0**

8)



∠KJX = **100^0**

9)



∠QRX = **60^0**

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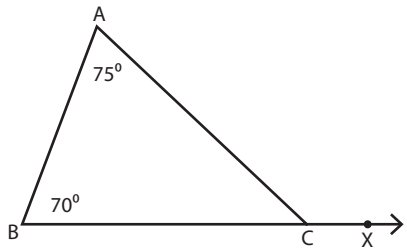
Sheet 3

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 : ∠ACX

Opposite interior angles : ∠A and ∠B

Exterior angle = Sum of opposite interior angles

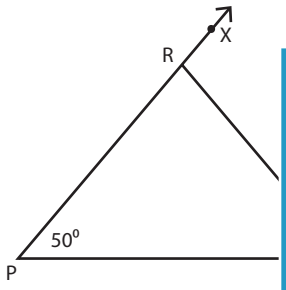
∠ACX = ∠A + ∠B

∠ACX = $70^0 + 75^0$

∠ACX = **145^0**

Find the unknown exterior angle for each triangle.

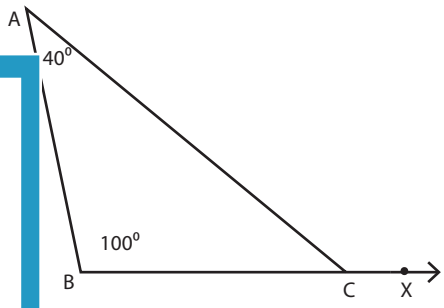
1)



∠QRX = _____

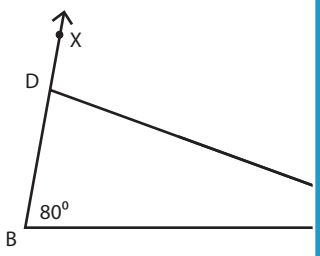
2)

3)

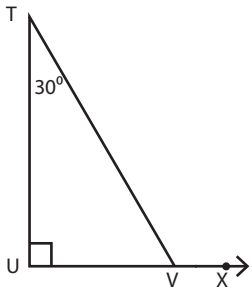


∠ACX = _____

4)



∠CDX = _____



∠TVX = _____

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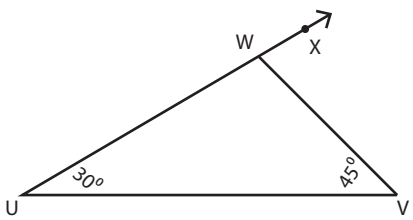
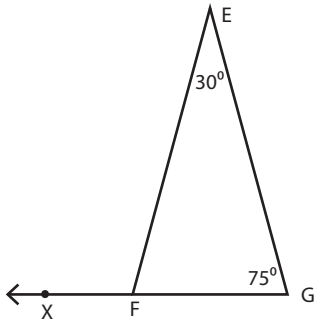
7)



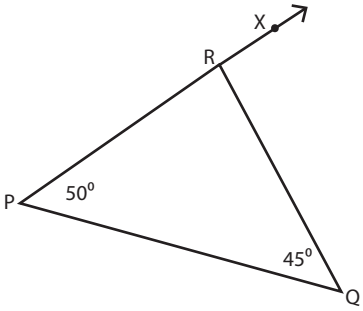
∠VWX = _____

8)



∠EFX = _____

9)



∠QRX = _____

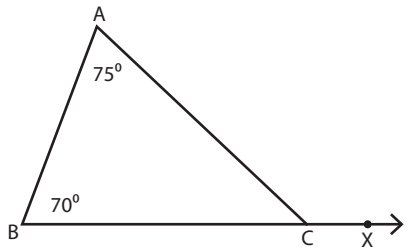
Name : _____

Answer key

Sheet 3

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 : ∠ACX

Opposite interior angles : ∠A and ∠B

Exterior angle = Sum of opposite interior angles

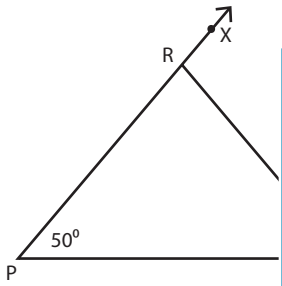
∠ACX = ∠A + ∠B

∠ACX = $70^0 + 75^0$

∠ACX = **145^0**

Find the unknown exterior angle for each triangle.

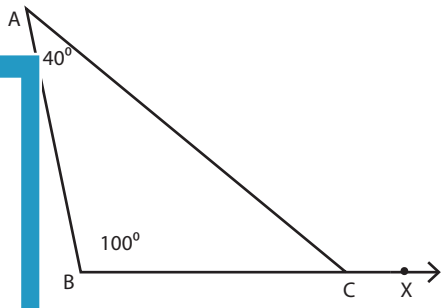
1)



∠QRX = **100^0**

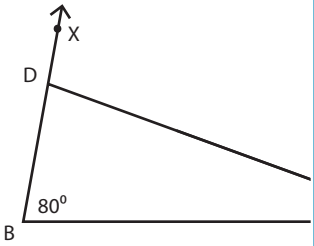
2)

3)

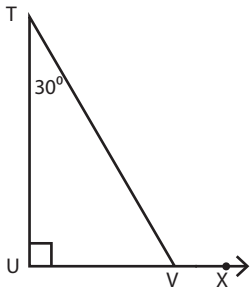


∠ACX = **140^0**

4)

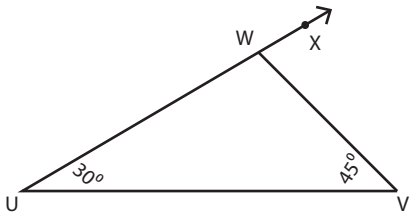


∠CDX = **100^0**



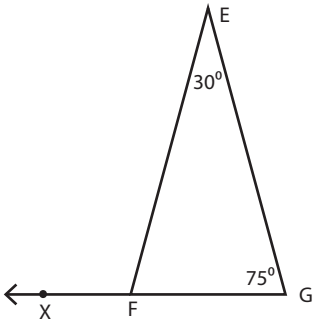
∠TVX = **120^0**

7)



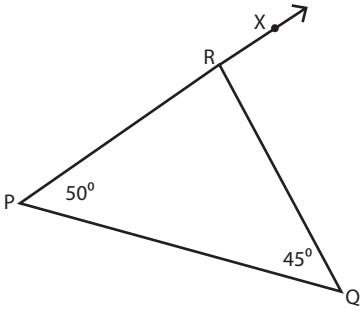
∠VWX = **75^0**

8)



∠EFX = **105^0**

9)



∠QRX = **95^0**

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