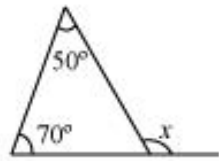


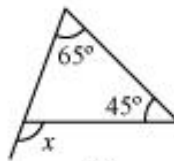


NCERT Solutions For Class 7 Maths The Triangle and its Properties
Exercise 6.2

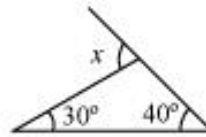
Q1. Find the value of the unknown exterior angle x in the following diagrams:



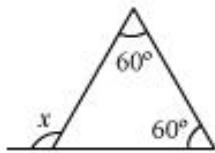
(i)



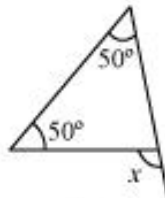
(ii)



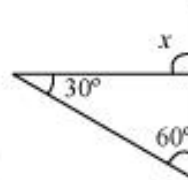
(iii)



(iv)



(v)



(vi)

Ans:

(i) $x = 50^\circ + 70^\circ$ (Exterior angle theorem)

$x = 120^\circ$

(ii) $x = 65^\circ + 45^\circ$ (Exterior angle theorem)

$= 110^\circ$

(iii) $x = 40^\circ + 30^\circ$ (Exterior angle theorem)

$= 70^\circ$

(iv) $x = 60^\circ + 60^\circ$ (Exterior angle theorem)

$= 120^\circ$

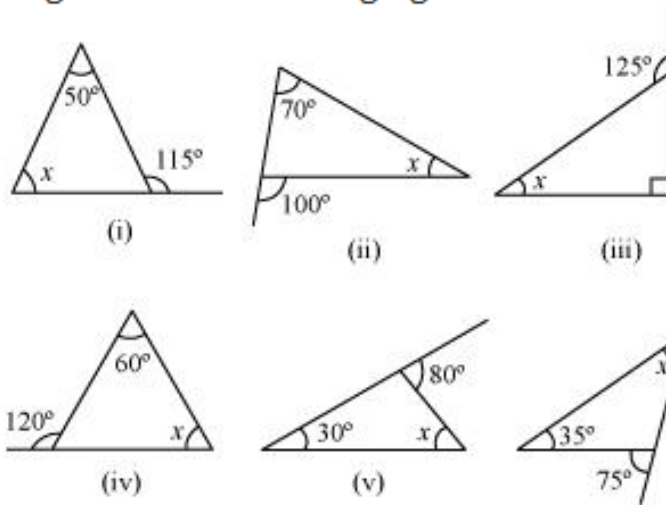
(v) $x = 50^\circ + 50^\circ$ (Exterior angle theorem)

$= 100^\circ$

$$(vi) x = 30^\circ + 60^\circ \text{ (Exterior angle theorem)}$$

$$= 90^\circ$$

Q2. Find the value of the unknown interior angle x in the following figures:



Ans:

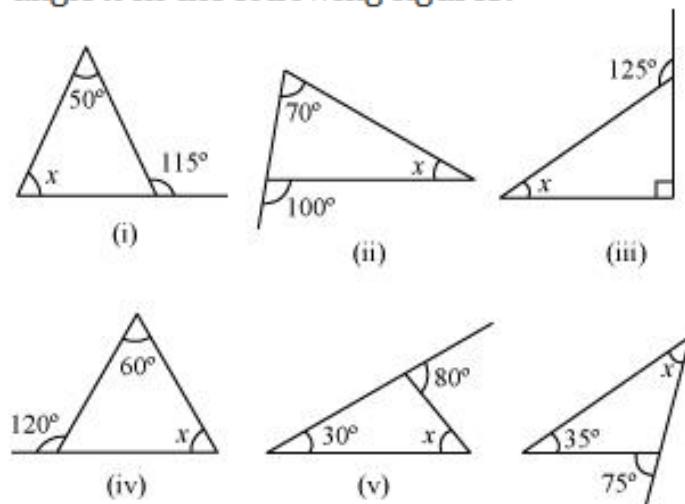
$$(i) x + 50^\circ = 115^\circ \text{ (Exterior angle theorem)}$$

$$x = 115^\circ - 50^\circ = 65^\circ$$

$$(vi) x = 30^\circ + 60^\circ \text{ (Exterior angle theorem)}$$

$$= 90^\circ$$

Q2. Find the value of the unknown interior angle x in the following figures:



Ans:

$$(i) x + 50^\circ = 115^\circ \text{ (Exterior angle theorem)}$$

$$x = 115^\circ - 50^\circ = 65^\circ$$

***** END *****

