Mathematics

(Chapter – 6) (The Triangle and its Properties)
(Class – VII)

Exercise 6.2

Question 1:

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

Answer 1:

Since, Exterior angle = Sum of interior opposite angles, therefore

     (i) $x = 50° + 70° = 120°$

     (ii) $x = 65° + 45° = 110°$

     (iii) $x = 30° + 40° = 70°$

     (iv) $x = 60° + 60° = 120°$

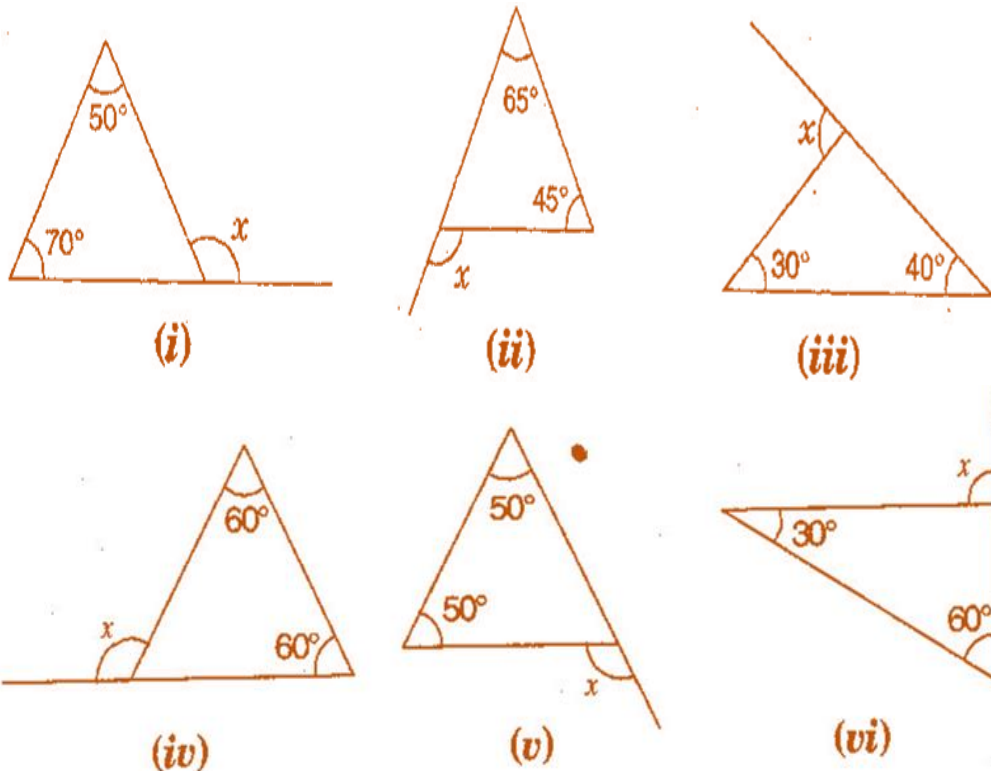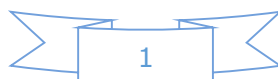   (v) $x = 50° + 50° = 100°$
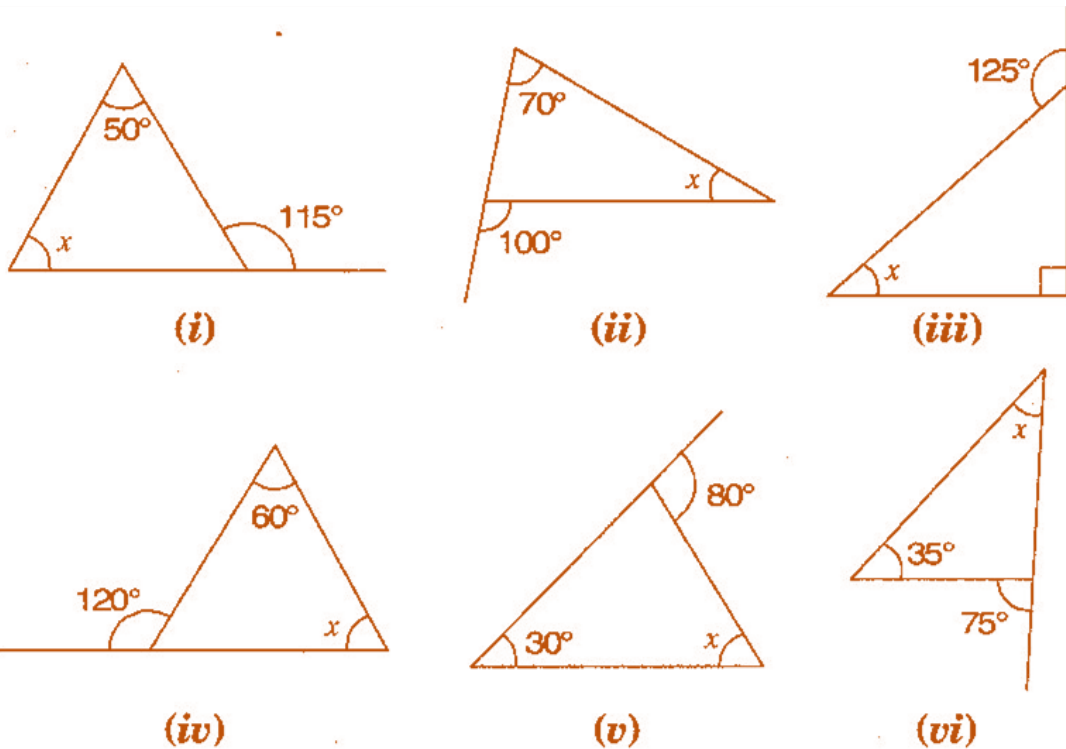
     (vi) $x = 60˚ + 30˚ = 90˚$

Mathematics

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Question 2:

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

Answer 2:

Since, Exterior angle = Sum of interior opposite angles, therefore

(i)	$x + 50° = 115°$	$\Rightarrow$	$x = 115° - 50° = 65°$
(ii)	$70° + x = 100°$	$\Rightarrow$	$x = 100° - 70° = 30°$
(iii)	$x + 90° = 125°$	$\Rightarrow$	$x = 120° - 90° = 35°$
(iv)	$60° + x = 120°$	$\Rightarrow$	$x = 120° - 60° = 60°$
(v)	$30° + x = 80°$	$\Rightarrow$	$x = 80° - 30° = 50°$
(vi)	$x + 35° = 75°$	$\Rightarrow$	$x = 75° - 35° = 40°$