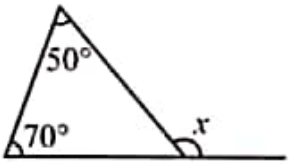
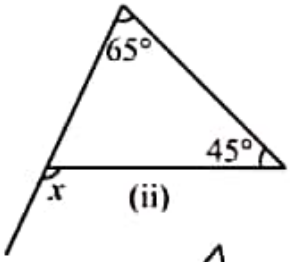
ਅਭਿਆਸ 6.2

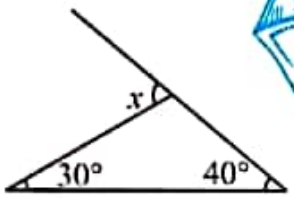
1. ਹੇਠ ਲਿਖੇ ਚਿੱਤਰਾਂ ਵਿੱਚੋਂ ਅਗਿਆਤ ਬਾਹਰਲੇ ਕੋਣ x ਦਾ ਮੁੱਲ ਪਤਾ ਕਰੋ।



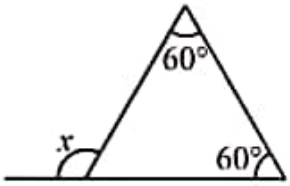
(i)



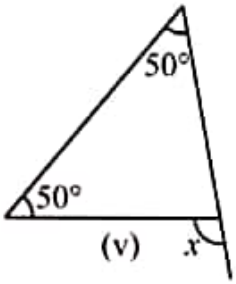
(ii)



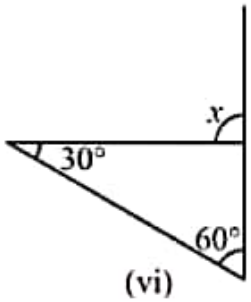
(iii)



(iv)

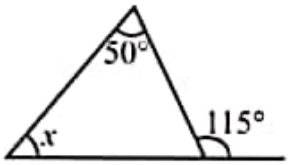


(v)

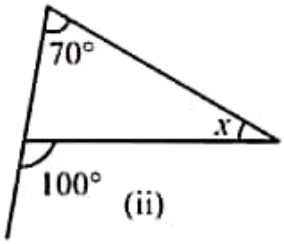


(vi)

2. ਹੇਠ ਲਿਖੇ ਚਿੱਤਰਾਂ ਵਿੱਚੋਂ ਅਗਿਆਤ ਅੰਦਰਲੇ ਕੋਣ x ਦਾ ਮੁੱਲ ਪਤਾ ਕਰੋ।



(i)



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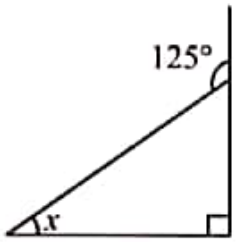
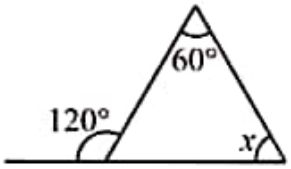
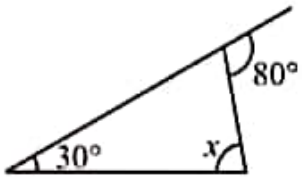


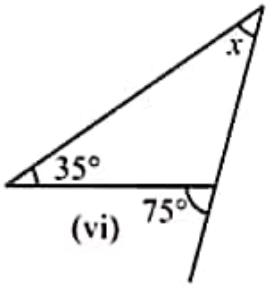
(iii)



(iv)



(v)

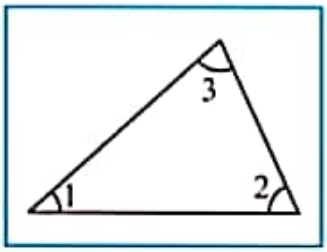


(vi)

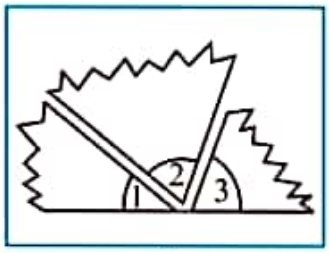
6.5 ਤ੍ਰਿਭੁਜ ਦੇ ਅੰਦਰਲੇ ਕੋਣਾਂ ਦਾ ਜੋੜ ਗੁਣ

ਤ੍ਰਿਭੁਜ ਦੇ ਤਿੰਨ ਕੋਣਾਂ ਦਾ ਆਪਸ ਵਿੱਚ ਸੰਬੰਧ ਦਰਸਾਉਣ ਵਾਲਾ ਇੱਕ ਮਹੱਤਵਪੂਰਨ ਗੁਣ ਹੈ। ਇਸ ਗੁਣ ਨੂੰ ਤੁਸੀਂ ਹੇਠ ਦਿੱਤੀਆਂ ਚਾਰ ਕਿਰਿਆਵਾਂ ਦੁਆਰਾ ਦੇਖ ਅਤੇ ਸਮਝ ਸਕੋਗੇ।

1. ਇੱਕ ਤ੍ਰਿਭੁਜ ਖਿੱਚੋ। ਇਸਦੇ ਤਿੰਨ ਕੋਣਾਂ ਨੂੰ ਕੱਟ ਕੇ ਅਲੱਗ-ਅਲੱਗ ਕਰੋ। ਹੁਣ ਇਸਨੂੰ ਇਸ ਪ੍ਰਕਾਰ ਤਰਤੀਬ ਵਿੱਚ ਰੱਖੋ ਜਿਵੇਂ ਕਿ ਚਿੱਤਰ 6.13 (i) ਅਤੇ (ii) ਵਿੱਚ ਦਿਖਾਇਆ ਗਿਆ ਹੈ।



(i)



(ii)

ਚਿੱਤਰ 6.13

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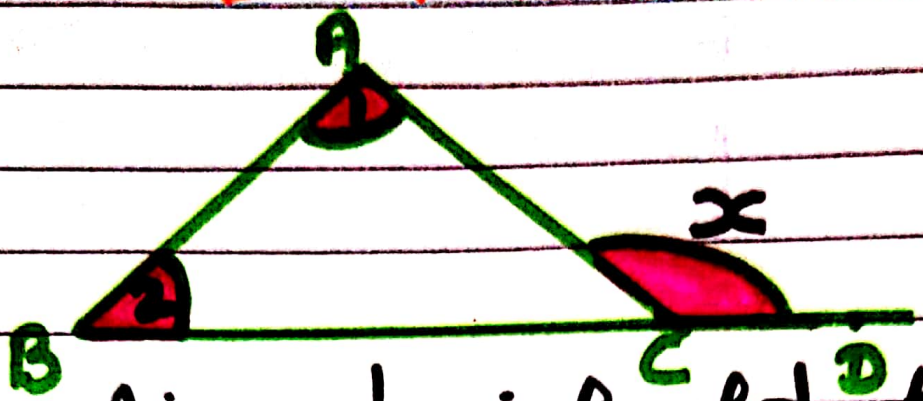
EXERCISE 6.2



ਉਸ

ਅਸੀਂ ਜਾਣਦੇ ਹਾਂ ਕਿ ਕਿਸੇ ਤ੍ਰਿਭੁਜ ਦਾ ਬਾਹਰੀ ਕੋਣ ਅੰਦਰਲੇ ਸਨਮੁਖ ਕੋਣਾਂ ਦੇ ਜੋੜ ਦੇ ਬਰਾਬਰ ਹੁੰਦਾ ਹੈ।

ਭਾਵ $\angle x = \angle 1 + \angle 2$

1

(i) $x = 50^\circ + 70^\circ = 120^\circ$ Ans

(ii) $x = 65^\circ + 45^\circ = 110^\circ$ Ans

(iii) $x = 30^\circ + 41^\circ = 71^\circ$ Ans

(iv) $x = 60^\circ + 61^\circ = 120^\circ$ Ans

(v) $x = 50^\circ + 50^\circ = 100^\circ$ Ans

(vi) $x = 30^\circ + 61^\circ = 91^\circ$ Ans

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Q2 નીચેના દરેક x ની કિંમત શોધો

Ans આપણે જાણીએ છીએ કે ત્રિકોણના બાકીના દરેક બહિષ્કોણ અંતઃસમ્મુખ બેઉ ખૂણાના સરવાળા જેટલો હોય છે.
આ ગુણધર્મનો ઉપયોગ કરીને આપણે

(i) $115^\circ = x + 50^\circ$

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

(ii) $100^\circ = x + 70^\circ$

$x = 100^\circ - 70^\circ = 30^\circ$ Ans

(iii) $125^\circ = x + 90^\circ$ ($\square = 90^\circ$)

$x = 125^\circ - 90^\circ = 35^\circ$ Ans

(iv) $120^\circ = x + 60^\circ$

$x = 120^\circ - 60^\circ = 60^\circ$ Ans

(v) $80^\circ = x + 30^\circ$

$x = 80^\circ - 30^\circ = 50^\circ$ Ans

(vi) $75^\circ = x + 35^\circ$

$x = 75^\circ - 35^\circ = 40^\circ$ Ans

Vandana Rani
MATH MISTRESS
G.H.S. BHANDAL
HIMMAT

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