

ch-15
Triangles
Ex-15(A)

i) Yes, because $70^\circ + 20^\circ + 90^\circ = 180^\circ$. It can be formed.

ii) No, because $40^\circ + 130^\circ + 20^\circ = 190^\circ$ and it is not 180° . It can't be formed.

iii) No, because $60^\circ + 60^\circ + 50^\circ = 170^\circ$ and it is not 180° . It can't be formed.

iv) Yes, because $125^\circ + 40^\circ + 15^\circ = 180^\circ$. It can be formed.

2) It's an equilateral triangle. So, it will be $60^\circ + 60^\circ + 60^\circ = 180^\circ$.

So, it is 60° .

3) $\angle A = 45^\circ$

$\angle B = 75^\circ$

~~$\angle C = \angle A$~~

$\Rightarrow \angle A + \angle B + \angle C = 180^\circ$

$\Rightarrow \angle C = x$

$\Rightarrow 45^\circ + 75^\circ + x = 180^\circ$

$\Rightarrow 120^\circ + x = 180^\circ$

$\Rightarrow x = 180^\circ - 120^\circ$

$\Rightarrow x = 60^\circ$