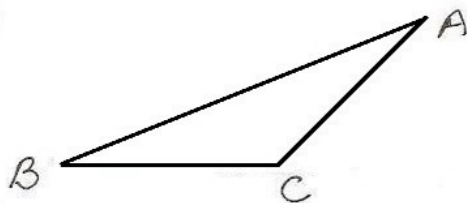


5



let  $\angle A = x^\circ$

$\angle B = y^\circ$

$\angle C = 3y^\circ$

acc to CI

$\angle A + \angle B + \angle C = 180^\circ$  (angle sum prop. of  $\Delta$ )

$x + y + 3y = 180$

$\Rightarrow x + 4y = 180 \dots \textcircled{1}$

acc. to CII

$\angle C = 2(\angle A + \angle B)$

$3y = 2(x + y)$

$\Rightarrow 2x + 2y = 3y$

$\Rightarrow 2x = y \dots \textcircled{11}$

Sub. in  $\textcircled{1}$

$x + 4(2x) = 180$

$\Rightarrow 9x = 180$

$\Rightarrow x = \frac{180}{9} = 20$

$= 20$

Sub. in  $\textcircled{11}$

$y = 2 \times 20$

$= 40$

$\therefore$  angles are

$\angle A = x^\circ = 20^\circ$

$\angle B = y^\circ = 40^\circ$

$\angle C = 3 \times 40^\circ = 120^\circ$

6  $5x - y = 5$   
 $\Rightarrow y = 5x - 5$

X	0	1	2
Y	-5	0	5

$3x - y = 3$

$\Rightarrow y = 3x - 3$

X	0	1	2
Y	-3	0	3

