

Exercise 4D

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Question 1:

Since, sum of the angles of a triangle is 180°

$$\angle A + \angle B + \angle C = 180^{\circ}$$

$$\Rightarrow \angle A + 76^{\circ} + 48^{\circ} = 180^{\circ}$$

$$\Rightarrow$$
 $\angle A = 180^{\circ} - 124^{\circ} = 56^{\circ}$

Question 2:

Let the measures of the angles of a triangle are $(2x)^{\circ}$, $(3x)^{\circ}$ and $(4x)^{\circ}$.

Then, 2x + 3x + 4x = 180 [sum of the angles of a triangle is

180°]

 \Rightarrow 9x = 180

 \Rightarrow x = 180/9 = 20

.. The measures of the required angles are:

$$2x = (2 \times 20)^{\circ} = 40^{\circ}$$

$$3x = (3 \times 20)^{\circ} = 60^{\circ}$$

$$4x = (4 \times 20)^{\circ} = 80^{\circ}$$

Question 3:

$$\angle^{B = \frac{\times}{4}} = \frac{240}{4} = 60^{\circ}$$

$$\angle^{C} = \frac{x}{6} = \frac{240}{6} = 40^{\circ}$$

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