



In the triangle ABC, the angle A is three times angle B, and angle C is 60 degrees. Find angle A.

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90°

40°

80°

120°

Show Answer...

Correct Answer:90°

In the triangle ABC, the angle A is three times angle B, and angle C is 60 degrees. Find angle A.

A. 40°

B. 80°

C. 90°

D. 120°

Explanation:

Let angle B= x

then angle A= 3x

also given angle C=60°

as sum of angles of triangle equal to 180° i.e.

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

$$\Rightarrow 3x + x + 60^\circ = 180^\circ$$

$$\Rightarrow 4x = 180^\circ - 60^\circ$$

$$\Rightarrow 4x = 120^\circ$$

$$\Rightarrow (\text{angle B}) x = 120^\circ / 4$$

$$\Rightarrow x = 30^\circ$$

$$\text{Angle A} = 3x = 3(30) \Rightarrow 90^\circ$$



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