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ratios Trigonometric about Worksheet الملف

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Middle 3 (Trigonometry)

(I) **Choose the correct answer:** (6 marks)

1) If $\sin x = \frac{\sqrt{3}}{2}$ where x is a measure of an acute angle, then $x = \dots\dots\dots$

- 30° 45° 60° 90°

2) If ΔABC is a right-angled triangle at B , $\sin C = \frac{3}{5}$ and $AB = 6$ cm, then $AC = \dots\dots\dots$ cm

- 5 10 6 3

3) If $\tan 3x = \frac{1}{\sqrt{3}}$ where $3x$ is a measure of an acute angle, then $x = \dots\dots\dots$

- 10° 20° 30° 40°

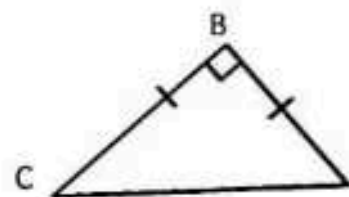
4) $\sin^2 30^\circ + \cos^2 30^\circ = \dots\dots\dots$

- $\frac{\sqrt{3}+1}{2}$ $\frac{1}{2}$ $\frac{\sqrt{3}}{2}$ 1

5) **In the opposite figure:**

$AB = AC$, $m(\angle A) = 90^\circ$, then $\tan C = \dots\dots\dots$

- 1 $\frac{1}{2}$ $\frac{\sqrt{3}}{2}$ $\frac{1}{\sqrt{3}}$



6) If $m(\angle A) = 75^\circ$, $\sin B = \cos A$ where $\angle A$ is a measure of an acute angle, then $m(\angle B) = \dots\dots\dots$

- a) 1 b) $\frac{1}{2}$ c) $\frac{\sqrt{3}}{2}$ d) $\frac{1}{\sqrt{3}}$

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(II) Answer the following: (4 marks)

Without using the calculator, find the value of x that satisfies :

$$\sqrt{3} \tan x = \sin 30^\circ \cos 60^\circ + \cos 30^\circ \sin 60^\circ$$

