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 = ---------

30° 45° 60° 90°

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

5 10 6 3

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

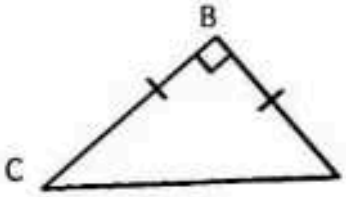
10° 20° 30° 40°

4) $sin^2 30° + cos^2 30°$ =---------

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

5) **In the opposite figure:**

AB = AC , m(∠ A) = 90° , then tan C = ---------



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

6) If m(∠ A) = 75° , sin B = cos A where ∠ A is a measure of an acute angle , then m(∠ B) = ---------

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

(II) Answer the following: **(4 marks)**

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

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