



LEARN ABOUT
OUR ONLINE
COURSES HERE



FREE
MINI-COURSE

REGISTER FOR
FREE MINI COURSE



VIDEO SOLUTIONS
FOR THIS
WORKSHEET

TRIGONOMETRIC FUNCTIONS

WHERE PASSIONATE TEACHING INSPIRES
www.timganmath.com

QUESTION 1

Without using a calculator, find the exact value of $\frac{\sin \frac{\pi}{4}}{\cos \frac{\pi}{3}}$.

QUESTION 2

Express $\sin \theta$, $\cos \theta$ and $\tan \theta$ in terms of the ratios of its basic angles when $\theta = 140^\circ$.

WHERE PASSIONATE TEACHING INSPIRES
www.timganmath.com

QUESTION 3

Find the exact value of each of the following

(a) $\cos(-210^\circ)$

(b) $\cos \frac{8}{3}\pi$

(c) $\sin 330^\circ$

QUESTION 4

Given that $\cos \theta = \frac{2}{7}$ and θ is acute, without using a calculator, find,

(i) $\sec \theta$,

(ii) $\cot \theta$,

(iii) $\operatorname{cosec} \theta$.

QUESTION 5

Write down the principal value of $\tan^{-1}(-\sqrt{3})$, leaving your answer in radian as a multiple of π .