

## COMMON TRIGONOMETRIC RATIOS

If  $\cos\theta = 4/5$

Then ,

$\tan\theta = \underline{\hspace{2cm}}$

If  $\sin\theta = 1/\sqrt{2}$

Then ,

$\cos\theta = \underline{\hspace{2cm}}$

If  $\tan\theta = 3/4$

Then , find value of ,

$$\frac{1-\cos\theta}{1+\cos\theta} = \underline{\hspace{2cm}}$$

If  $\tan\theta = \sqrt{2}$

Then , find value of ,

$$\frac{1-\cos^2\theta}{2-\sin^2\theta} = \underline{\hspace{2cm}}$$

USE THE TRIGONOMETRIC TABLE TO  
EVALUATE THE FOLLOWING :

[Give your answer correct to 3 significant  
figures ]

$$\sin 45^\circ \sin 30^\circ + \cos 45^\circ \cos 30^\circ$$

$\underline{\hspace{2cm}}$

$$\cos 60 \cos 45 - \sin 60 \sin 45$$


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$$\sin^2 30 \cos^2 45 + 4 \tan^2 30 + \frac{1}{2} \sin^2 90 - 2 \cos^2 90 + \frac{1}{24} \cos^2 0$$


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$$4(\sin^4 30 + \cos^4 30) - 3(\tan^2 60 - \tan^2 45) + 5 \cos^2 45$$


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$$\frac{1}{\tan^2 30} + 2 \cos^2 60 - \frac{3}{4} \cos^2 45 - \frac{4}{\cos^2 30}$$


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$$5 \cos^2 60 - \tan^2 45 / \sin^2 30 + \cos^2 30$$


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$$2\tan 30^\circ / 1 + \tan^2 30^\circ = \sin 2x$$

$$x = \underline{\hspace{2cm}}$$