



## MATHS

### BOOKS - KALYANI MATHS (ASSAMESE ENGLISH)

### COMPLEMENTARY ANGLES AND THEIR TRIGONOMETRIC RATIOS

#### Example

1. Evaluate  $\frac{\sin 66^\circ}{\cos 24^\circ}$



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2. Evaluate  $\tan 47^\circ \tan 43^\circ$



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3. Evaluate  $\sin 51^\circ \cdot \sec 39^\circ$



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4. If  $4A$  is an acute angle and  $\sec 4A = \operatorname{cosec}(30^\circ + 2A)$ . Find  $A$ .



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5. Prove that  $\tan 21^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 69^\circ = 1$



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