

Trigonometric Ratios of Complementary Angles

Evaluate without using trigonometric table

1 $\frac{\sin 54^\circ}{\cos 360^\circ}$

2 $\frac{\tan 25^\circ}{\cot 65^\circ}$

3 $\sin 37^\circ \cos 53^\circ + \cos 37^\circ \sin 53^\circ$

4 $\frac{\cos 58^\circ}{\sin 32^\circ} + \frac{\sin 22^\circ}{\cos 68^\circ}$

5 $\frac{\cos 65^\circ \sin 18^\circ \cos 58^\circ}{\cos 72^\circ \sin 25^\circ \sin 32^\circ}$

6 $\tan 35^\circ \tan 60^\circ \tan 55^\circ \tan 30^\circ$

7 If $\sin A = \cos 33^\circ$, find A

8 If $\tan A \tan 35^\circ = 1$, find A

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Answers

1 $\frac{\sin 54^\circ}{\cos 360^\circ}$

1

2 $\frac{\tan 25^\circ}{\cot 65^\circ}$

1

3 $\sin 37^\circ \cos 53^\circ + \cos 37^\circ \sin 53^\circ$

1

4 $\frac{\cos 58^\circ}{\sin 32^\circ} + \frac{\sin 22^\circ}{\cos 68^\circ}$

1

5 $\frac{\cos 65^\circ \sin 18^\circ \cos 58^\circ}{\cos 72^\circ \sin 25^\circ \sin 32^\circ}$

1

6 $\tan 35^\circ \tan 60^\circ \tan 55^\circ \tan 30^\circ$

1

7 If $\sin A = \cos 33^\circ$, find A

A = 57°

8 If $\tan A \tan 35^\circ = 1$, find A

A = 55°