



12. Which of the following has the greatest value?

A $\cos 50^\circ$

B $\sin 50^\circ$

C $\tan 50^\circ$

D $\frac{1}{\sin 50^\circ}$

E $\frac{1}{\cos 50^\circ}$

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12. E $\cos 50^\circ < \sin 50^\circ < 1$. Hence $\frac{1}{\cos 50^\circ} > \frac{1}{\sin 50^\circ} > 1 > \sin 50^\circ > \cos 50^\circ$.
 $\tan 50^\circ = \frac{\sin 50^\circ}{\cos 50^\circ} < \frac{1}{\cos 50^\circ}$ hence $\frac{1}{\cos 50^\circ}$ has the greatest value.