

mobius

Trigonemetry, Unit Circle Ratios (Tan, Sec, Csc, Cot) - Ratio To Ratio As Inverse



(Greek Letter)

 $\sec(\alpha)$

What inverse ratio would give this trigonometry ratio?

A
$$egin{aligned} \mathsf{B} \ & \mathsf{sec}(lpha) = rac{1}{\mathsf{sin}(lpha)} \mathsf{sec}(lpha) = rac{1}{\mathsf{cos}(lpha)} \end{aligned}$$

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 $|\mathbf{A}| = \frac{1}{\sin(\alpha)} \sec(\alpha) = \frac{1}{\cos(\alpha)} \mathbf{tan}(\alpha)$ $|\mathbf{A}| = \frac{1}{\sin(\alpha)} \sec(\alpha) = \frac{1}{\cos(\alpha)} \cot(\alpha)$

What inverse ratio would give this trigonometry ratio?

$$\mathsf{A}$$
 B $\mathsf{tan}(lpha) = rac{1}{\mathsf{cot}(lpha)} \mathsf{tan}(lpha) = rac{1}{\mathsf{sec}(lpha)}$

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What inverse ratio would give this trigonometry ratio?

$$egin{array}{c|c} \mathsf{A} & \mathsf{B} & \\ \mathsf{sec}(eta) = rac{1}{\mathsf{sin}(eta)} \mathsf{sec}(eta) = rac{1}{\mathsf{cos}(eta)} \end{array}$$

What inverse ratio would give this trigonometry ratio?

$$\mathsf{Sec}(\beta) = \frac{1}{\sin(\beta)} \sec(\beta) = \frac{1}{\cos(\beta)}$$

$$\mathsf{sec}(\beta) = \frac{1}{\sin(\beta)} \sec(\beta) = \frac{1}{\cos(\beta)}$$

$$\mathsf{sec}(\gamma) = \frac{1}{\cos(\gamma)} \sec(\gamma) = \frac{1}{\sin(\gamma)}$$

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What inverse ratio would give this

$$egin{aligned} \mathsf{A} & \mathsf{B} \ & \mathsf{sec}(heta) = rac{1}{\mathsf{cos}(heta)} \mathsf{sec}(heta) = rac{1}{\mathsf{sin}(heta)} \end{aligned}$$

What inverse ratio would give this

$$\sec(\theta) = \frac{1}{\cos(\theta)} \sec(\theta) = \frac{1}{\sin(\theta)}$$

$$\sin(\gamma) = \frac{1}{\csc(\gamma)} \sin(\gamma) = \frac{1}{\sec(\gamma)}$$

$$\sin(\gamma) = \frac{1}{\csc(\gamma)} \sin(\gamma) = \frac{1}{\sec(\gamma)}$$

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What inverse ratio would give this trigonometry ratio?

$$egin{aligned} \mathsf{A} & \mathsf{B} \ & \mathsf{cot}(\gamma) = rac{1}{\mathsf{tan}(\gamma)} \mathsf{cot}(\gamma) = rac{1}{\mathsf{csc}(\gamma)} \end{aligned}$$

What inverse ratio would give this trigonometry ratio?

$$\cot(\gamma) = \frac{1}{\tan(\gamma)} \cot(\gamma) = \frac{1}{\csc(\gamma)}$$

$$\cot(\gamma) = \frac{1}{\tan(\gamma)} \cot(\gamma) = \frac{1}{\csc(\gamma)}$$

$$\cot(\theta) = \frac{1}{\csc(\theta)} \cot(\theta) = \frac{1}{\tan(\theta)}$$

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