

mobius

Trigonometry, Negative Angles Identity (Equations) - Csc/Sec/Cot to Identity



(Greek Letter)

What is true about the cotangent of this negative angle?

$$-\theta$$
) $\cot(-\theta) = -\cot(\theta)$ sec

$$\cot(- heta)=\cot(heta)$$

What is true about the secant of this negative angle?

$$\overset{\scriptscriptstyle\mathsf{B}}{\mathsf{sec}}(- heta) = -\mathsf{sec}(heta)$$

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What is true about the cosecant of this negative angle?

 $\mathsf{csc}(-\alpha)_{\overset{\mathsf{A}}{\mathsf{csc}}(-\alpha)=\mathsf{csc}(\alpha)}\mathsf{sec}$

$$\overset{\scriptscriptstyle\mathsf{A}}{\mathsf{csc}}(-lpha)=\mathsf{csc}(lpha)$$

$$\operatorname{\mathsf{csc}}(-lpha) = -\operatorname{\mathsf{csc}}(lpha)$$

What is true about the secant of this negative angle?

$$\stackrel{\scriptscriptstyle\mathsf{A}}{\mathsf{sec}}(-\gamma) = -\mathsf{sec}(\gamma)$$

$$\sec(-\gamma)=\sec(\gamma)$$

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What is true about the secant of this negative angle?

$$\overset{\scriptscriptstyle\mathsf{A}}{\mathsf{sec}}(-eta) = -\mathsf{sec}(eta)$$

$$\sec(-eta) = \sec(eta)$$

What is true about the cosecant of this negative angle?

$$\stackrel{ ext{ iny csc}}{ ext{ iny csc}} (-\gamma) = ext{ iny csc}(\gamma)$$

$$\operatorname{\mathsf{csc}}(-\gamma) = -\operatorname{\mathsf{csc}}(\gamma)$$

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What is true about the cosecant of this negative angle?

$$\overset{\scriptscriptstyle\mathsf{A}}{\mathsf{csc}}(-eta) = -\mathsf{csc}(eta)$$

$$\overset{\scriptscriptstyle\mathsf{B}}{\mathsf{csc}}(-eta)=\mathsf{csc}(eta)$$

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What is true about the cotangent of this negative angle?

$$\cot(-\gamma)=\cot(\gamma)$$

$$\det(-\gamma) = -\cot(\gamma)$$