

ADE DLC Calculus for Everyone
Trig Derivative Formulas---1

**What is the derivative of
 $\sin(x)$?**

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$$\frac{d}{dx}[\sin(x)] = \cos(x)$$

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**What is the derivative of
 $\cos(x)$?**

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$$\frac{d}{dx}[\cos(x)] = -\sin(x)$$

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**What is the derivative of
 $\tan(x)$?**

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$$\frac{d}{dx}[\tan(x)] = \sec^2(x) = (\sec(x))^2$$

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**What is the derivative of
cotangent(x)?**

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$$\frac{d}{dx}[\cot(x)] = -\csc^2(x) = -(\csc(x))^2$$

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**What is the derivative of
secant(x)?**

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$$\frac{d}{dx}[\sec(x)] = \sec(x) \tan(x)$$

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What is the derivative of cosecant(x)?

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$$\frac{d}{dx}[\csc(x)] = -\csc(x)\cot(x)$$

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Trig Derivative Formulas---7

What is the derivative of $y = \frac{\pi}{3}\sin\theta - \cos\theta$?

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$$y = \frac{\pi}{3}\cos\theta + \sin\theta$$

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What is the derivative of $h(t) = 2\pi\sin t$?

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$$2\pi\cos t$$

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What is the derivative of $y = 5 + \cos x$?

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$$-\sin x$$

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What is the derivative of $y = \pi - \cos(x)$?

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$$y = \sin(x)$$