

삼각함수의 음각공식
(Negative angle identities of trigonometric functions)

Negative angle identities of trigonometric functions

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▶ End

Negative angle identities of trigonometric functions

▶ Start

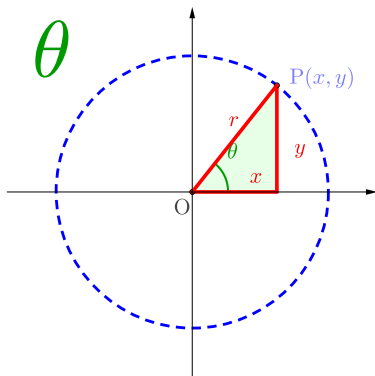
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Negative angle identities of trigonometric functions

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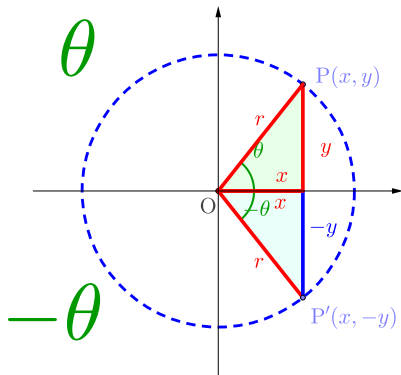
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Negative angle identities of trigonometric functions

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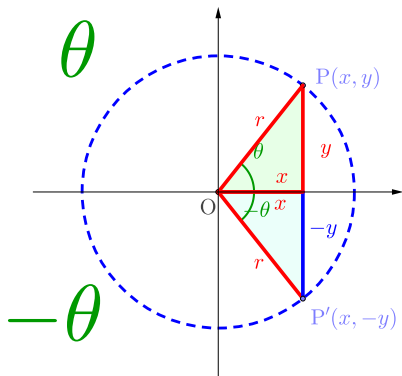


$$\sin(-\theta) = \frac{-y}{r}$$

Negative angle identities of trigonometric functions

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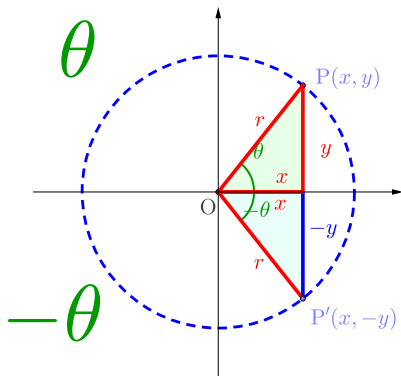


$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r}$$

Negative angle identities of trigonometric functions

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▶ End

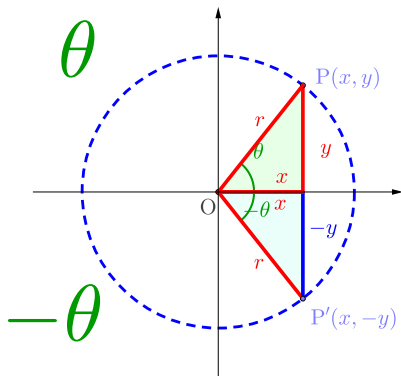


$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

Negative angle identities of trigonometric functions

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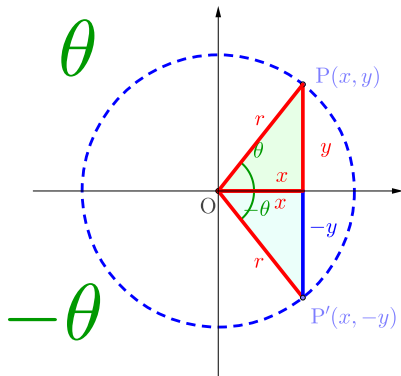


$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

Negative angle identities of trigonometric functions

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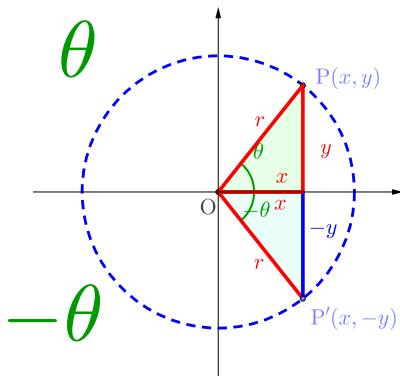
$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

$$\cos(-\theta)$$

Negative angle identities of trigonometric functions

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▶ End



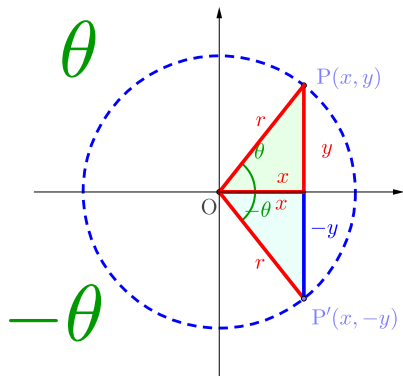
$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

$$\cos(-\theta) = \frac{x}{r}$$

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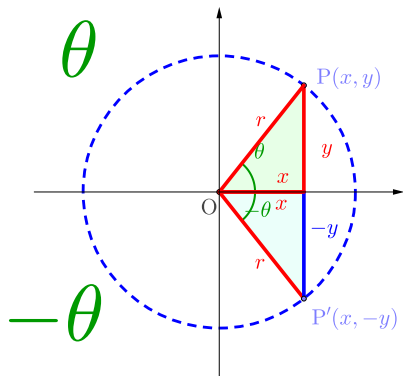
$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

$$\cos(-\theta) = \frac{x}{r} = \cos \theta$$

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$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

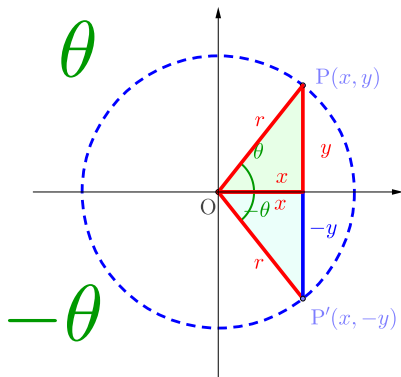
$$\cos(-\theta) = \frac{x}{r} = \cos \theta$$

$$\tan(-\theta)$$

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$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

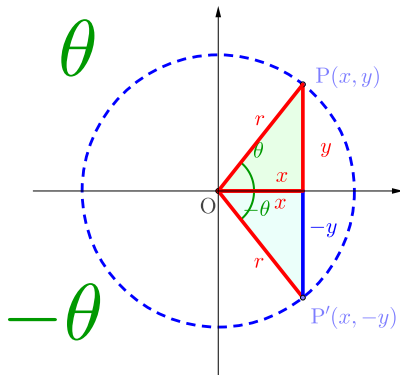
$$\cos(-\theta) = \frac{x}{r} = \cos \theta$$

$$\tan(-\theta) = \frac{-y}{x}$$

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$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

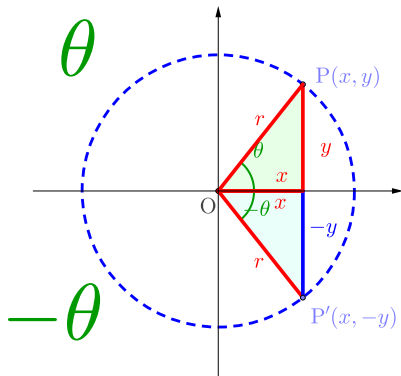
$$\cos(-\theta) = \frac{x}{r} = \cos \theta$$

$$\tan(-\theta) = \frac{-y}{x} = -\frac{y}{x}$$

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$$\sin(-\theta) = \frac{-y}{r} = -\frac{y}{r} = -\sin \theta$$

$$\cos(-\theta) = \frac{x}{r} = \cos \theta$$

$$\tan(-\theta) = \frac{-y}{x} = -\frac{y}{x} = -\tan \theta$$

Github:

<https://min7014.github.io/math20220918002.html>

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and you can see a picture moving.