

삼각함수의 보각공식

(Supplementary angle Identities of trigonometric functions)

Supplementary angle Identities of trigonometric functions

▶ Start

▶ End

Supplementary angle Identities of trigonometric functions

▶ Start

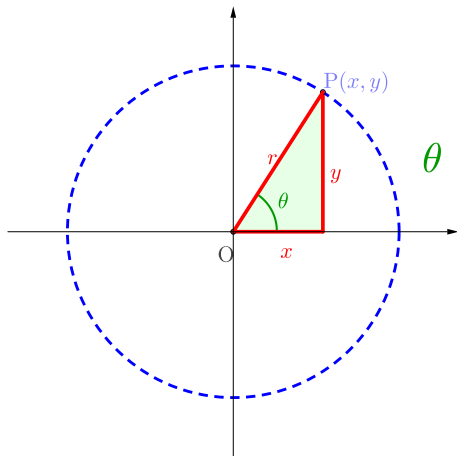
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Supplementary angle Identities of trigonometric functions

▶ Start

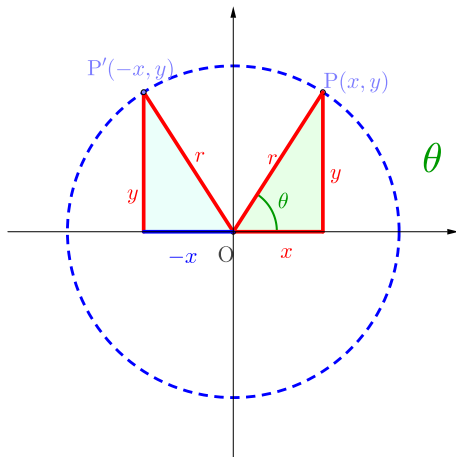
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Supplementary angle Identities of trigonometric functions

▶ Start

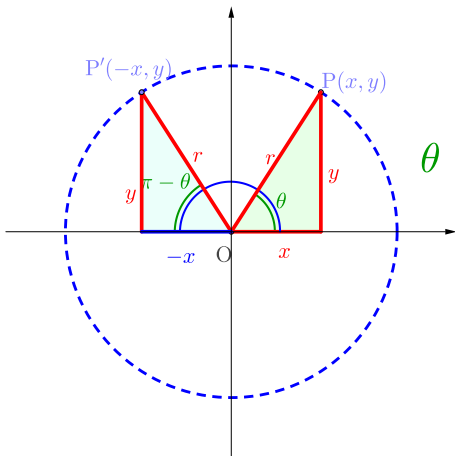
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Supplementary angle Identities of trigonometric functions

▶ Start

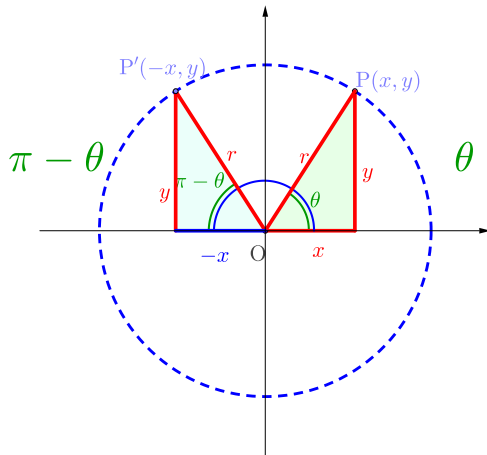
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Supplementary angle Identities of trigonometric functions

▶ Start

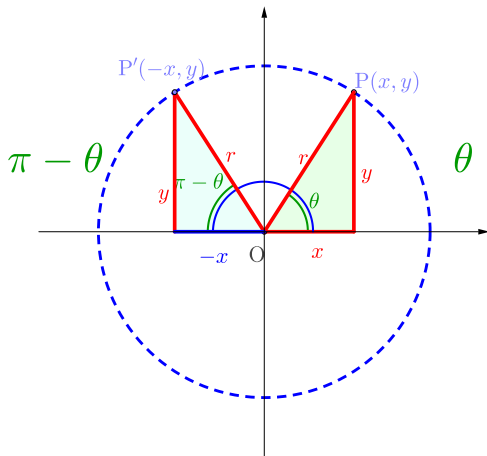
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Supplementary angle Identities of trigonometric functions

▶ Start

▶ End

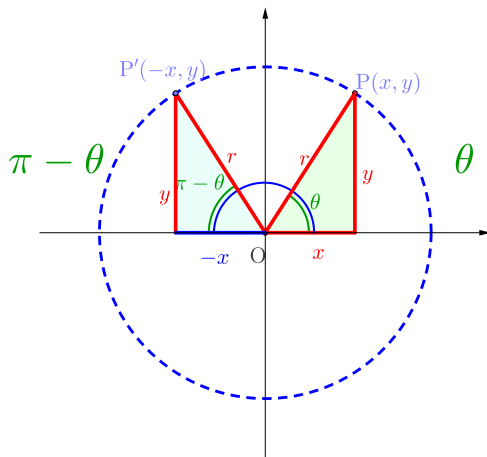


$$\sin(\pi - \theta)$$

Supplementary angle Identities of trigonometric functions

▶ Start

▶ End

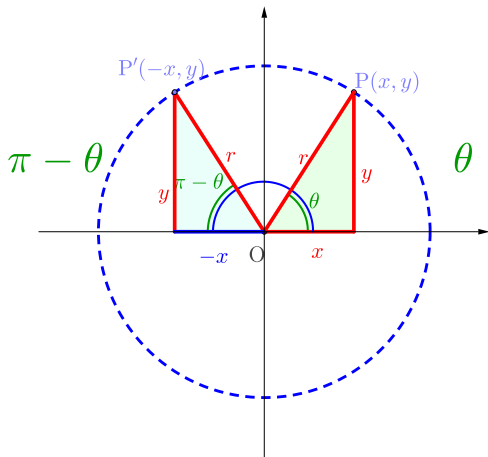


$$\sin(\pi - \theta) = \frac{y}{r}$$

Supplementary angle Identities of trigonometric functions

▶ Start

▶ End

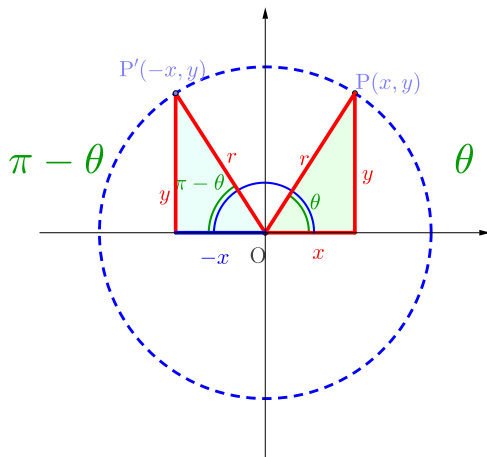


$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

Supplementary angle Identities of trigonometric functions

▶ Start

▶ End



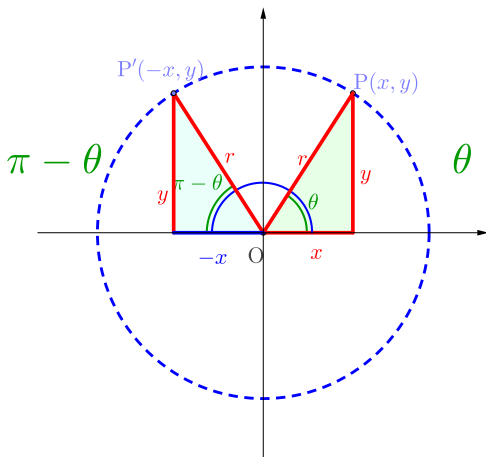
$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

$$\cos(\pi - \theta)$$

Supplementary angle Identities of trigonometric functions

▶ Start

▶ End



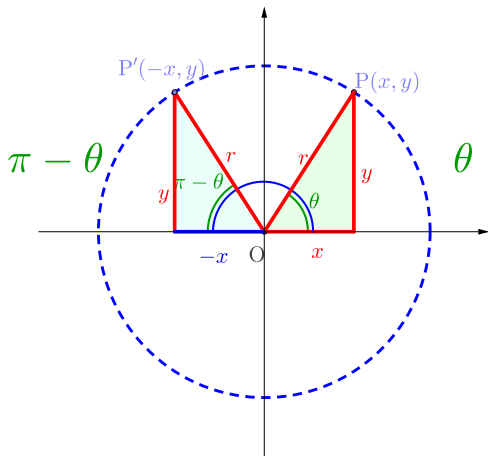
$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

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

Supplementary angle Identities of trigonometric functions

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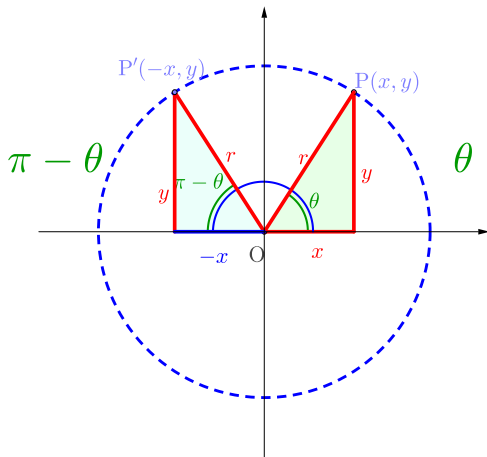
$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

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

Supplementary angle Identities of trigonometric functions

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► End



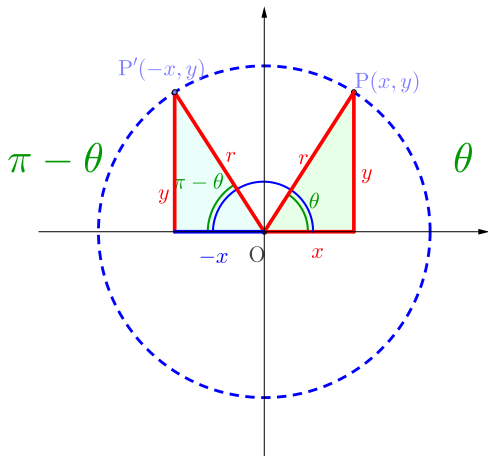
$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

$$\begin{aligned}\cos(\pi - \theta) &= \frac{-x}{r} = -\frac{x}{r} \\ &= -\cos \theta\end{aligned}$$

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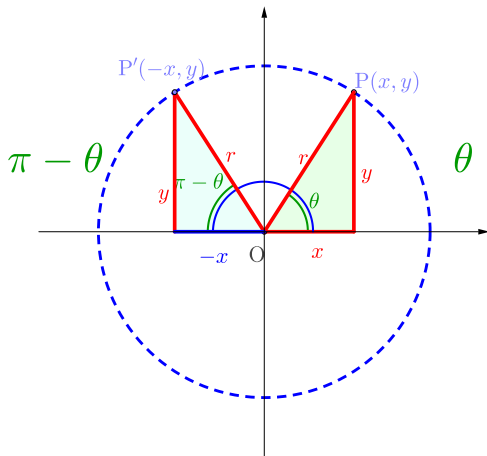
$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

$$\begin{aligned}\cos(\pi - \theta) &= \frac{-x}{r} = -\frac{x}{r} \\ &= -\cos \theta\end{aligned}$$

$$\tan(\pi - \theta)$$

▶ Start

▶ End



$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

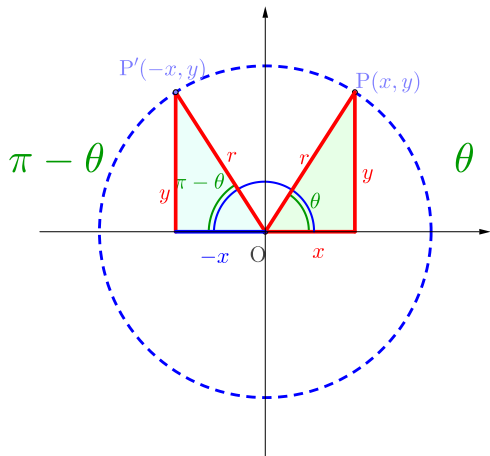
$$\begin{aligned}\cos(\pi - \theta) &= \frac{-x}{r} = -\frac{x}{r} \\ &= -\cos \theta\end{aligned}$$

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

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$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

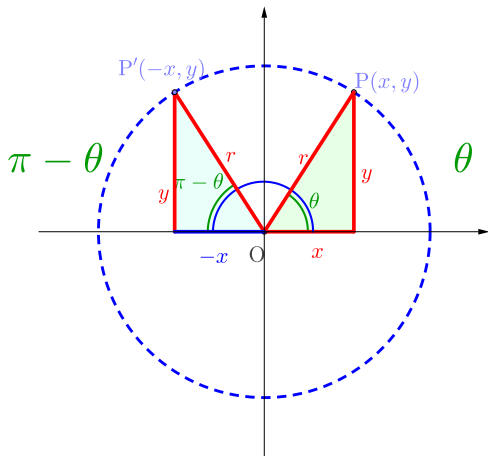
$$\begin{aligned}\cos(\pi - \theta) &= \frac{-x}{r} = -\frac{x}{r} \\ &= -\cos \theta\end{aligned}$$

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

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$$\begin{aligned}\sin(\pi - \theta) &= \frac{y}{r} \\ &= \sin \theta\end{aligned}$$

$$\begin{aligned}\cos(\pi - \theta) &= \frac{-x}{r} = -\frac{x}{r} \\ &= -\cos \theta\end{aligned}$$

$$\begin{aligned}\tan(\pi - \theta) &= \frac{y}{-x} = -\frac{y}{x} \\ &= -\tan \theta\end{aligned}$$

Github:

<https://min7014.github.io/math20220919001.html>

Click or paste URL into the URL search bar,
and you can see a picture moving.