

Trigonometric and inverse trigonometric functions

Robert Mařík



You will evaluate trigonometric and inverse trigonometric functions.

- Full screen button or CTRL+L switches between window and Full Screen mode.
- Start button gives you a random problem.
- Hint button shows you a hint.
- Solution button shows you a solution.
- Next question button shows another random problem.
- Home button moves here.

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Start

Full Screen

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Question

Evaluate $\arcsin(0)$.



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Hint

Solution

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Question

Evaluate $\arcsin\left(\frac{1}{2}\right)$.



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Question

Evaluate $\arcsin\left(\frac{\sqrt{2}}{2}\right)$.



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Evaluate $\arcsin\left(\frac{\sqrt{3}}{2}\right)$.



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Question

Evaluate $\arcsin(1)$.



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Evaluate $\arcsin\left(-\frac{1}{2}\right)$.

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Evaluate $\arcsin(-1)$.



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Evaluate $\arccos(1)$.



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Evaluate $\arccos\left(\frac{\sqrt{3}}{2}\right)$.

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Evaluate $\arccos(-1)$.



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Evaluate $\arctan(0)$.



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Evaluate $\arctan\left(\frac{\sqrt{3}}{3}\right)$.



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Evaluate $\arctan(1)$.



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Evaluate $\arctan(\sqrt{3})$.



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Evaluate $\arctan\left(-\frac{\sqrt{3}}{3}\right)$.



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Evaluate $\arctan(-1)$.



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Evaluate $\arctan\left(-\sqrt{3}\right)$.



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Answer

$$\arcsin(0) = 0$$



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Solution

Next question

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Answer

$$\arcsin\left(\frac{1}{2}\right) = \frac{\pi}{6}$$



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$$\arcsin\left(\frac{\sqrt{2}}{2}\right) = \frac{\pi}{4}$$

Answer



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$$\arcsin\left(\frac{\sqrt{3}}{2}\right) = \frac{\pi}{3}$$

Answer



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$$\arcsin(1) = \frac{\pi}{2}$$

Answer



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Hint

Solution

Next question

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Answer

$$\arcsin\left(-\frac{1}{2}\right) = -\frac{\pi}{6}$$



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Solution

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Answer

$$\arcsin\left(-\frac{\sqrt{2}}{2}\right) = -\frac{\pi}{4}$$



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Answer

$$\arcsin\left(-\frac{\sqrt{3}}{2}\right) = -\frac{\pi}{3}$$



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Answer

$$\arcsin(-1) = -\frac{\pi}{2}$$



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Answer

$$\arccos(1) = 0$$



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Hint

Solution

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Answer

$$\arccos\left(\frac{\sqrt{3}}{2}\right) = \frac{\pi}{6}$$



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Answer

$$\arccos\left(\frac{\sqrt{2}}{2}\right) = \frac{\pi}{4}$$



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Answer

$$\arccos\left(\frac{1}{2}\right) = \frac{\pi}{3}$$



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$$\arccos(0) = \frac{\pi}{2}$$

Answer



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Answer

$$\arccos\left(-\frac{1}{2}\right) = \frac{2\pi}{3}$$



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Answer

$$\arccos\left(-\frac{\sqrt{2}}{2}\right) = \frac{3\pi}{4}$$



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Answer

$$\arccos\left(-\frac{\sqrt{3}}{2}\right) = \frac{5\pi}{6}$$



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Answer

$$\arccos(-1) = \pi$$



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Answer

$$\arctan(0) = 0$$



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$$\arctan\left(\frac{\sqrt{3}}{3}\right) = \frac{\pi}{6}$$

Answer



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$$\arctan(1) = \frac{\pi}{4}$$

Answer



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Answer

$$\arctan(\sqrt{3}) = \frac{\pi}{3}$$



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$$\arctan\left(-\frac{\sqrt{3}}{3}\right) = -\frac{\pi}{6}$$

Answer



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Answer

$$\arctan(-1) = -\frac{\pi}{4}$$



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$$\arctan\left(-\sqrt{3}\right) = -\frac{\pi}{3}$$



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