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Triginometric and inverse trigonometric functions

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You will evaluate trigonometric and inverse trigonometric functions.

- `Full screen` button or `CTRL+L` switshes 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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Question

Evaluate $\sin(0)$.

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Question

Evaluate $\arcsin(0)$.

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Evaluate $\sin\left(\frac{\pi}{6}\right)$.

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

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Evaluate $\sin\left(\frac{\pi}{4}\right)$.

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Evaluate $\sin\left(-\frac{\pi}{4}\right)$.

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

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Evaluate $\sin\left(-\frac{\pi}{3}\right)$.

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

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Evaluate $\sin\left(-\frac{\pi}{2}\right)$.

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Evaluate $\arcsin(-1)$.

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Evaluate $\cos(0)$.

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Evaluate $\cos\left(\frac{\pi}{6}\right)$.

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

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Evaluate $\cos\left(\frac{\pi}{4}\right)$.

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Question

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

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Question

Evaluate $\cos\left(\frac{\pi}{3}\right)$.

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

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Evaluate $\cos\left(\frac{\pi}{2}\right)$.

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Question

Evaluate $\arccos(0)$.

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Question

Evaluate $\cos\left(\frac{2\pi}{3}\right)$.

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Question

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

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Evaluate $\cos\left(\frac{3\pi}{4}\right)$.

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

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

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Evaluate $\cos(\pi)$.

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Evaluate $\arccos(-1)$.

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Evaluate $\cos\left(-\frac{\pi}{4}\right)$.

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Evaluate $\cos\left(-\frac{\pi}{3}\right)$.

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Evaluate $\cos\left(-\frac{\pi}{2}\right)$.

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Evaluate $\tan(0)$.

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Evaluate $\arctan(0)$.

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Evaluate $\tan\left(\frac{\pi}{6}\right)$.

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

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Question

Evaluate $\tan\left(\frac{\pi}{4}\right)$.

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Question

Evaluate $\arctan(1)$.

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Question

Evaluate $\tan\left(\frac{\pi}{3}\right)$.

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Question

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

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Question

Evaluate $\tan\left(-\frac{\pi}{6}\right)$.

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Question

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

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Evaluate $\tan\left(-\frac{\pi}{4}\right)$.

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Evaluate $\arctan(-1)$.

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Question

Evaluate $\tan\left(-\frac{\pi}{3}\right)$.

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Question

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

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Answer

$$\sin(0) = 0$$

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Answer

$$\arcsin(0) = 0$$

Hint
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Answer

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

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Answer

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

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Answer

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

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Answer

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

Hint
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Answer

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

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Answer

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

Hint
Solution
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Answer

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

Hint
Solution
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Answer

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

Hint
Solution
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Answer

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

Hint
Solution
Next question
Home

Answer

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

Hint
Solution
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Answer

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

Hint
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Answer

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

Hint
Solution
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Answer

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

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Answer

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

Hint
Solution
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Answer

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

Hint
Solution
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Answer

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

Hint
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Answer

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

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Answer

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

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Answer

$$\sin\left(\frac{5\pi}{6}\right) = \frac{1}{2}$$

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Answer

$$\sin(\pi) = 0$$

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Answer

$$\cos(0) = 1$$

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Answer

$$\arccos(1) = 0$$

Hint
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Answer

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

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Answer

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

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Answer

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

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Answer

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

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Answer

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

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Answer

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

Hint
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Answer

$$\cos\left(\frac{\pi}{2}\right) = 0$$

Hint
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Answer

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

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Answer

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

Hint
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Answer

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

Hint
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Answer

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

Hint
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Answer

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

Hint
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Answer

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

Hint
Solution
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Answer

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

Hint
Solution
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Answer

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

Hint
Solution
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Answer

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

Hint
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Answer

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

Hint
Solution
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Answer

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

Hint
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Answer

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

Hint
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Answer

$$\cos\left(-\frac{\pi}{2}\right) = 0$$

Hint
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Answer

$$\tan(0) = 0$$

Hint
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Answer

$$\arctan(0) = 0$$

Hint
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Answer

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

Hint
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Answer

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

Hint
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Answer

$$\tan\left(\frac{\pi}{4}\right) = 1$$

Hint
Solution
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Answer

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

Hint
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Answer

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

Hint
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Answer

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

Hint
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Answer

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

Hint
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Answer

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

Hint
Solution
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Answer

$$\tan\left(-\frac{\pi}{4}\right) = -1$$

Hint
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Answer

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

Hint
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Answer

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

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Answer

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

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