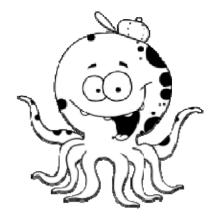
Name _____

Date _____

Symmetry of the Unit Circle and Odd-Even Properties - Step-by-Step Lesson

Find the value of $sin(-\frac{\pi}{4})$



Explanation:

The sine function $f(t) = \sin t$ is odd and the cosine function $g(t) = \cos t$ is even; that is, for every real number t,

$$\operatorname{Sin}(-\frac{\pi}{4}) = -\sin\frac{\pi}{4} = -\frac{\sqrt{2}}{2}$$

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

Note that the signs of the answers are consistent with the fact that the terminal side of the angle $-\Pi/4$ radian lies in quadrant IV.