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Graphing sine and cosine worksheet

Mathworksheetsgo.com has merged with Mathwarehouse.com, and all worksheets are now available on the new platform. Please update your bookmarks accordingly! This 4-part worksheet focuses on graphing sine and cosine curves, covering identifying period and amplitude based on equations or graphs, writing equations from graphs, and writing graphs from equations. The worksheet is divided into Model Problems, Practice, Challenge Problems, and Answer Key. The sine and cosine functions are commonly used to model periodic phenomena like sound and light waves, harmonic oscillators, day length, sunlight intensity, and average temperature variations. To graph these functions, the unit circle will be converted to Cartesian coordinates in pairs of angle-radian and trigonometric ratio. The worksheet also offers numerous graphing sine and cosine functions worksheets for extra practice. The licensor has granted permission to share, adapt, and remix the material under the Creative Commons license. You must provide credit to the original work, indicate if changes were made, and distribute your contributions under the same license. These functions can be applied to model various phenomena like sound and light waves. In fact, a team of climate scientists has developed an algorithm that predicts weather for the next 5 days with 87% accuracy by feeding data from 9 weather stations. The remaining 13% error is due to equipment limitations monitoring natural conditions. The model works by Given text: paraphrased text here (using NNES) we can make a graph of these function and shows us where it is up or down on the angle. We can then make a continuous line from these numbers to show this function. We do the same thing with the cosine function. Because of how functions relate to the unit circle, they often form different shapes when we plot them on a graph. They look like snakes moving up and down. By looking at the distance between these waves and the height or falling part of each wave, we can understand what is going on.