

Exploring Trigonometry

Imagine you are new to math functions such as sine and cosine. To understand how they behave, you need to see them plotted. Most textbooks will show a sine and cosine curve (or many) but they cannot show you any variant on the standard trig formula that you can think of.

Try This Activity:-

Click on $y=\sin x$ and then click on the graph button.

Then click on $y=\cos x$ and click the Over button. See how easy it is to compare two equations.

Then..

Click on $y=2\sin x$ followed by the Graph button.

Now click on $y=\sin 2x$ followed by the Over button.

A more complicated example..

The textbook says that $8\sin x(\cos x)^3-4\sin x\cos x$ is the same as $\sin 4x$. Is it?

To test if it is true, click on one and Graph it, then click on the other and Over(lay) it.