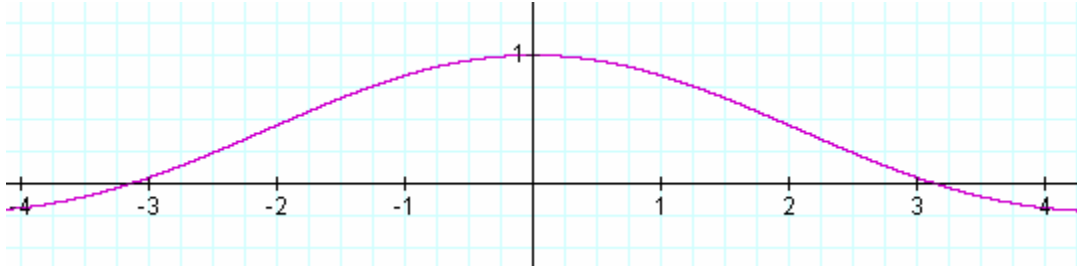


Trigonometric Limits

$$\text{Fact- } \lim_{x \rightarrow 0} \frac{\sin(x)}{x} = 1$$

x	sin(x)/x	x	sin(x)/x
-1	0.841471	1	0.841471
-0.5	0.9588511	0.5	0.9588511
-0.3	0.9850674	0.3	0.9850674
-0.1	0.9983342	0.1	0.9983342
-0.01	0.9999833	0.01	0.9999833
-0.001	0.9999998	0.001	0.9999998
-0.0001	1	0.0001	1
-0.00001	1	0.00001	1
-0.000001	1	0.000001	1



$$\text{Fact- } \lim_{x \rightarrow 0} \frac{\cos(x) - 1}{x} = 0$$

x	(cos(x)-1)/x	x	(cos(x)-1)/x
-1	0.459697694	1	-0.45969769
-0.5	0.244834876	0.5	-0.24483488
-0.3	0.14887837	0.3	-0.14887837
-0.1	0.049958347	0.1	-0.04995835
-0.01	0.004999958	0.01	-0.00499996
-0.001	0.0005	0.001	-0.0005
-0.0001	5E-05	0.0001	-5E-05
-0.00001	5E-06	0.00001	-5E-06
-0.000001	5.00044E-07	0.000001	-5.0004E-07

