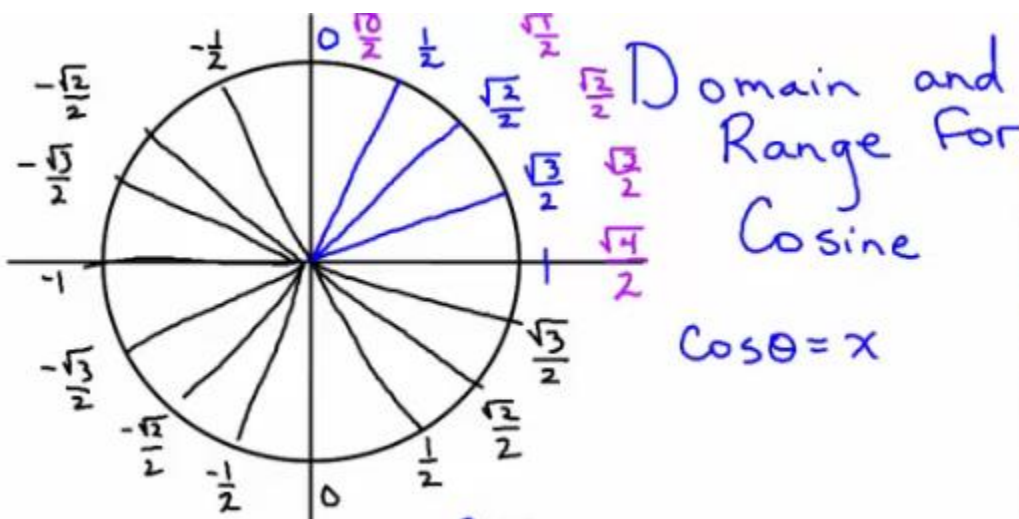
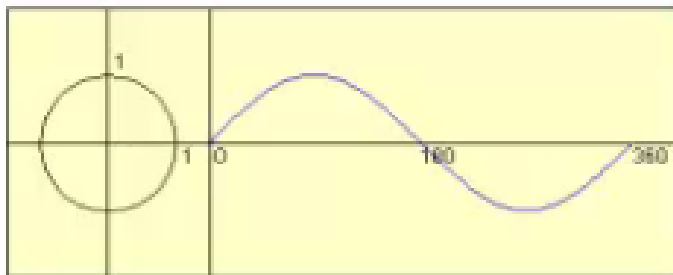


Graphs of Cosine and Sine

The graph of $y = \sin x$



$y = \sin x$

$$y = \cos x$$

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

$$y = \frac{9}{5} \cos\left(\frac{\pi}{4}x\right) + 1$$

Graphs of Phase Shifts

$$y = A \sin(Bx + C) + D$$

$$y = A \cos(Bx + C) + D$$

$$y = A \csc(Bx + C) + D$$

$$y = A \sec(Bx + C) + D$$

$$y = A \tan(Bx + C) + D$$

$$y = A \cot(Bx + C) + D$$

$$y = A \sin(\omega x - \phi) + B$$

The following data represent the average monthly temperatures (in °F) for a city in Alaska.

January, 1	25.0	April, 4	40.5	July, 7	56.2	October, 10	43.0
February, 2	28.6	May, 5	47.2	August, 8	55.2	November, 11	32.2
March, 3	32.9	June, 6	53.8	September, 9	50.2	December, 12	27.9