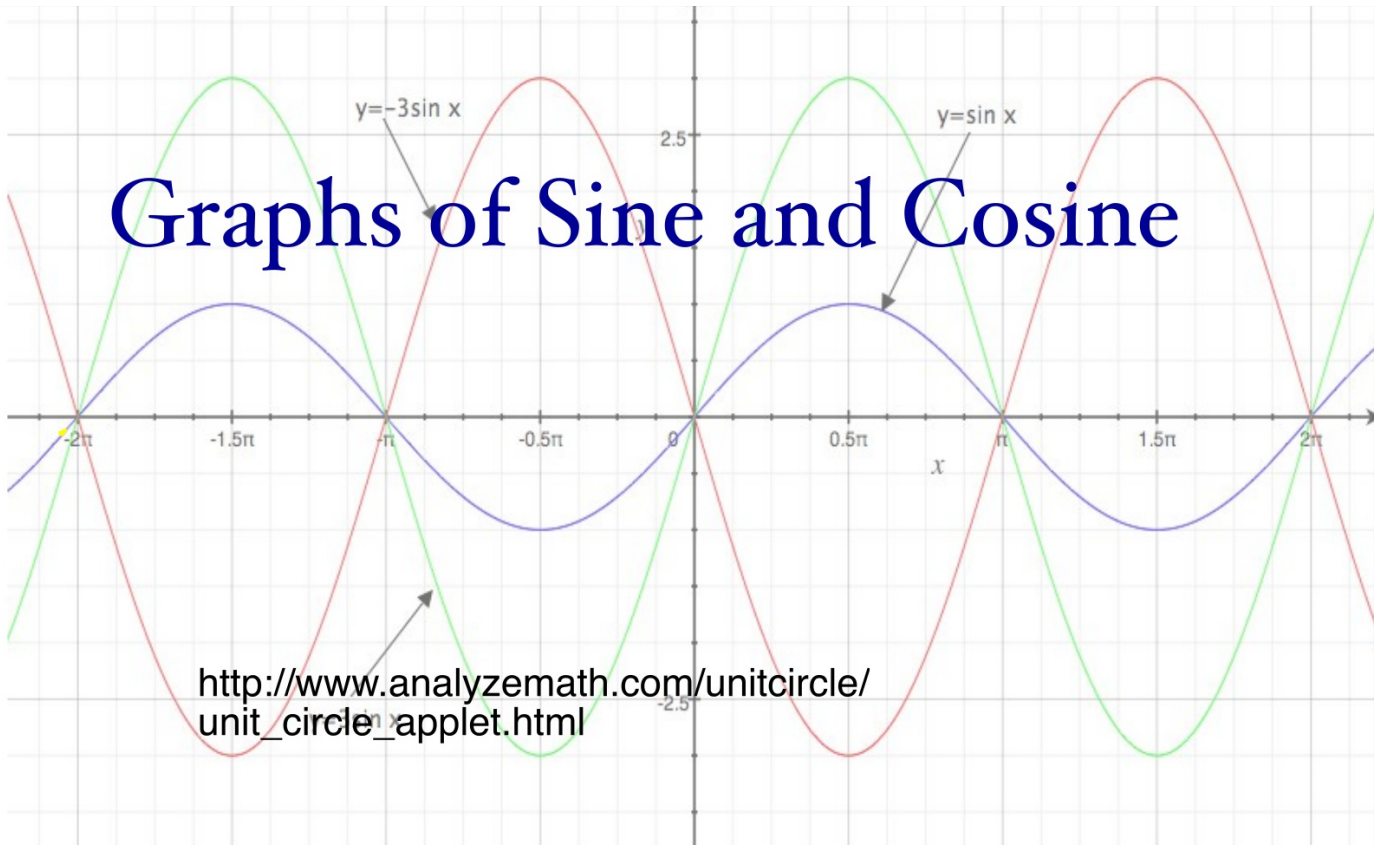
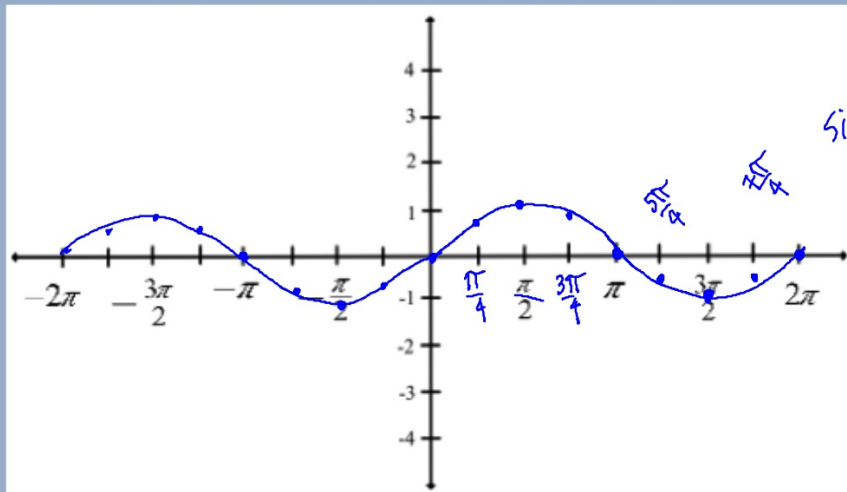
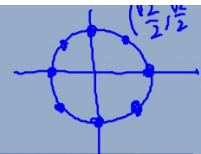


Graphs of Sine and Cosine



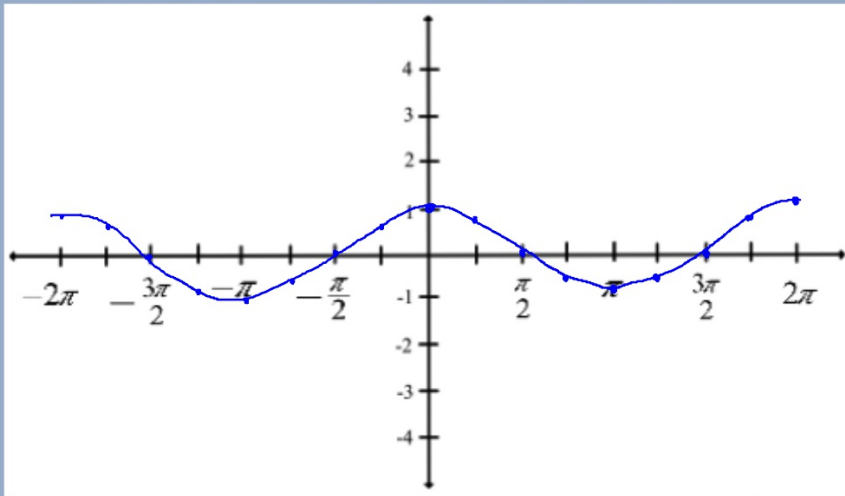
$$f(x) = \sin x \text{ (y)}$$



Domain \mathbb{R} Range $-1 \leq y \leq 1$ Period 2π

x	f(x)
0	0
$\pi/4$.7
$\pi/2$	1
$3\pi/4$.7
π	0
$5\pi/4$	-.7
$3\pi/2$	-1
$7\pi/4$	-.7
2π	0

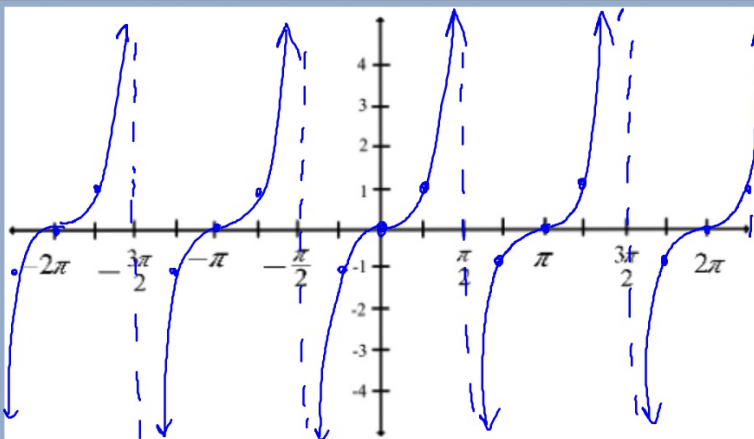
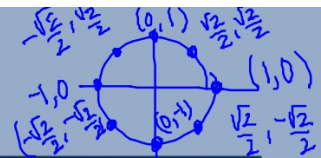
$$f(x) = \cos x$$



Domain: \mathbb{R}
 Range: $-1 \leq y \leq 1$
 Period: 2π

x	f(x)
0	1
$\pi/4$.7
$\pi/2$	0
$3\pi/4$	-.7
π	-1
$5\pi/4$	-.7
$3\pi/2$	0
$7\pi/4$.7
2π	1

$$f(x) = \tan x = \frac{\sin x}{\cos x}$$



Domain: \mathbb{R} except odd multiples of $\frac{\pi}{2}$
 Asymptotes: odd multiples of $\frac{\pi}{2}$
 Range: \mathbb{R}
 Period: π

x	f(x)
0	0
$\pi/4$	1
$\pi/2$	undefined
$3\pi/4$	-1
π	0
$5\pi/4$	1
$3\pi/2$	undefined
$7\pi/4$	-1
2π	0

Assignment

Worksheet