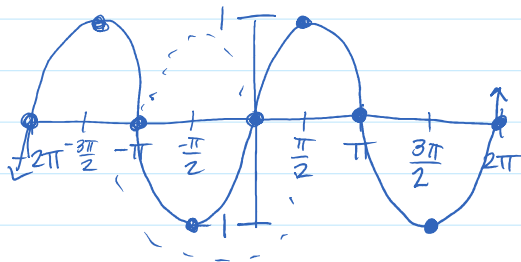


C.5 Notes (4-4/4-5 in bk):

Parent Functions:

① $f(x) = \sin(x)$

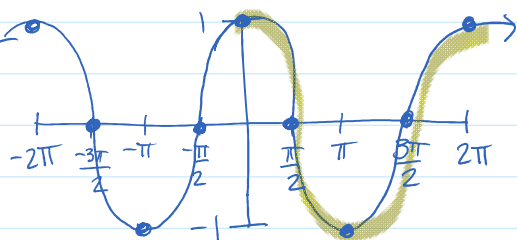
x	y
0	0
$\pi/2$	1
π	0
$3\pi/2$	-1
2π	0



Period: 2π
 Amplitude: 1
 Domain: $(-\infty, \infty)$
 Range: $[-1, 1]$
 Symmetry: Odd

② $f(x) = \cos(x)$

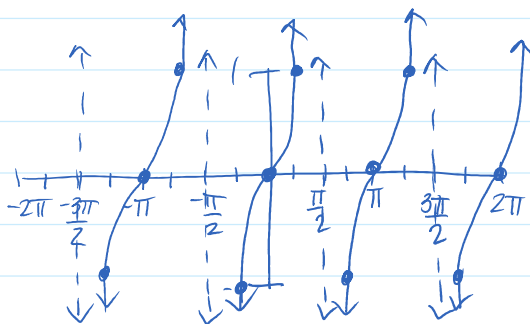
x	y
0	1
$\pi/2$	0
π	-1
$3\pi/2$	0
2π	1



Period: 2π
 Amplitude: 1
 Domain: $(-\infty, \infty)$
 Range: $[-1, 1]$
 Symmetry: Even

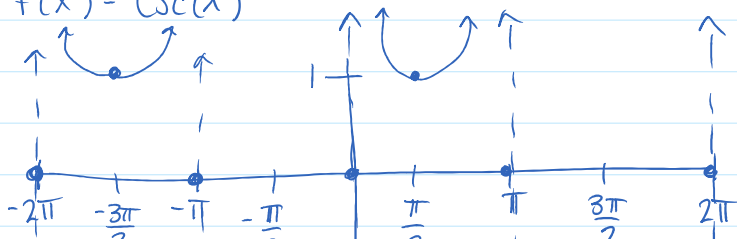
③ $f(x) = \tan(x)$

x	y
0	0
$\pi/4$	1
$\pi/2$	X
$3\pi/4$	-1
π	0
$5\pi/4$	1
$3\pi/2$	X
$7\pi/4$	-1
2π	0

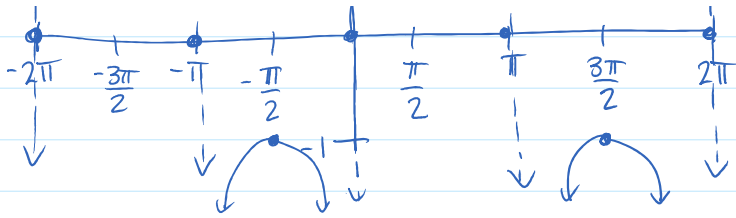


Period: π
 Amplitude: n/A
 Domain: $(-\infty, \infty)$, except $x \neq \frac{\pi}{2} + n\pi$
 Symmetry: Odd

④ $f(x) = \csc(x)$

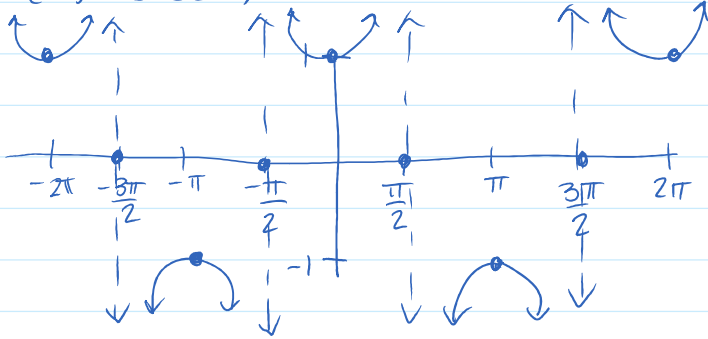


Period: 2π
 Amplitude: n/A
 Domain: $(-\infty, \infty)$, except $x \neq n\pi$
 Range: $(-\infty, -1] \cup [1, \infty)$



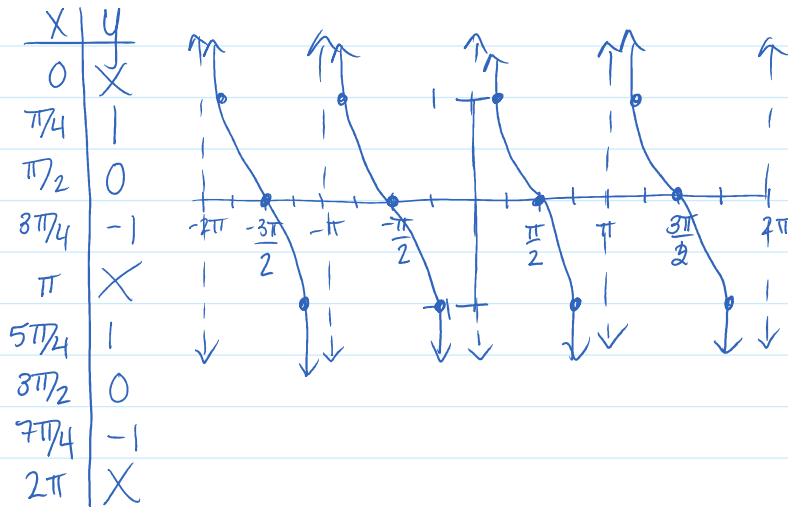
Domain: $(-\infty, \infty)$, except $x \neq n\pi$
 Range: $(-\infty, -1] \cup [1, \infty)$
 Symmetry: Odd

⑤ $f(x) = \sec(x)$



Period: 2π
 Amplitude: n/A
 Domain: $(-\infty, \infty)$, except $x \neq \frac{\pi}{2} + n\pi$
 Range: $(-\infty, -1] \cup [1, \infty)$
 Symmetry: Even

⑥ $f(x) = \cot(x)$



Period: π
 Amplitude: n/A
 Domain: $(-\infty, \infty)$, except $x \neq n\pi$
 Range: $(-\infty, \infty)$
 Symmetry: odd

pg. 268 #1-12