

Trig Graphing Review

See 4.4, 4.5

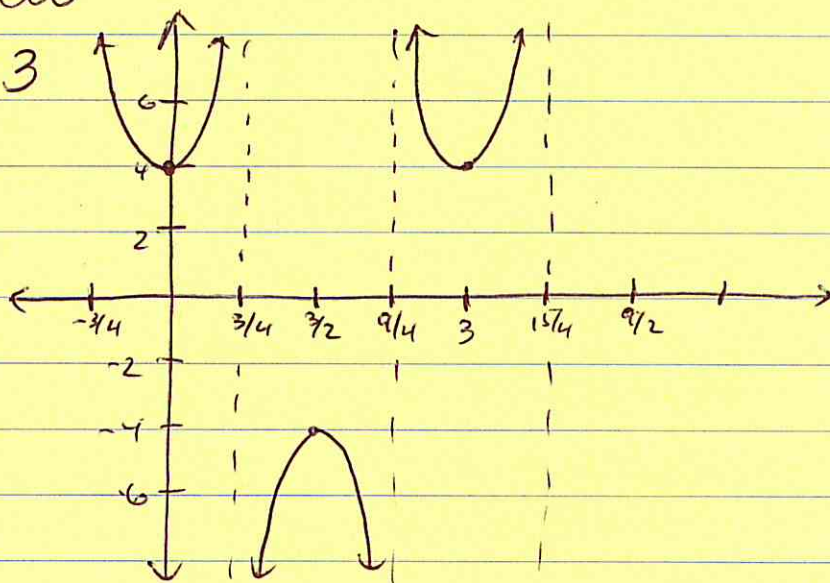
5. $y = 4 \sec \frac{2\pi}{3}x$ $P = \frac{2\pi}{2\pi/3} = 3$

x	y	$\frac{3x}{2\pi}$	$\frac{3}{4}y$	
0	1	0	4	
$\pi/2$	undef	$3/4$	undef	X
π	-1	$3/2$	-4	
$3\pi/2$	undef	$9/4$	undef	X
2π	1	3	4	

Asymptotes: $x = \frac{3}{4} + \frac{3n}{2}$

Domain: $x \neq \frac{3}{4} + \frac{3n}{2}$

Range $(-\infty, -4] \cup [4, \infty)$ No zeros



6. $y = -\csc x - 3$

x	y	$\frac{4}{4}x$	$-y$	x	$y-3$
0	undef	0	undef	0	undef
$\pi/2$	1	2π	-1	2π	-4
π	undef	4π	undef	4π	undef
$3\pi/2$	-1	6π	1	6π	-2
2π	undef	8π	undef	8π	undef

Asymptotes: $x = 4n\pi$

Domain $x \neq 4n\pi$

Range $(-\infty, -4] \cup [-2, \infty)$ No zeros (pre-translation)

