

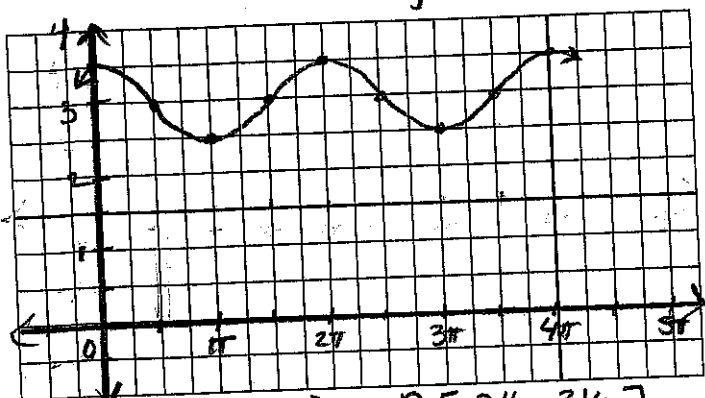
Chapter 4 Test #2 Review

Show all work for full credit.

Sketch each graph on the interval from 0 to 2π .

1. $y = \frac{1}{2} \cos x + 3$

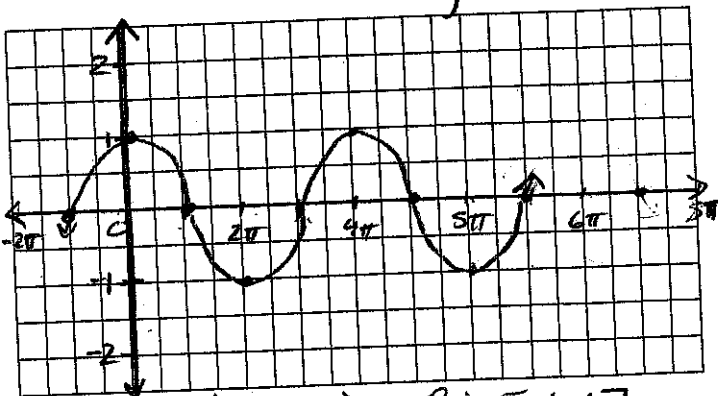
x	0	$\pi/2$	π	$3\pi/2$	2π
y	$3\frac{1}{2}$	3	$2\frac{1}{2}$	3	$3\frac{1}{2}$



D: $(-\infty, \infty)$ R: $[2\frac{1}{2}, 3\frac{1}{2}]$

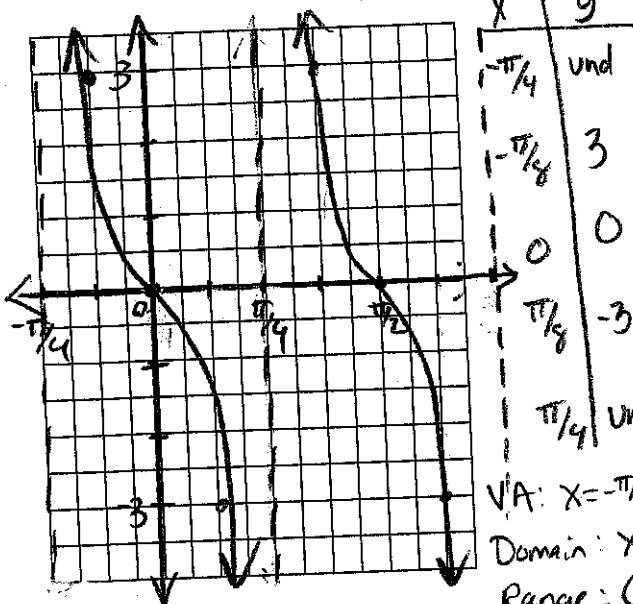
2. $y = \sin(\frac{1}{2}x + \frac{\pi}{2})$

x	$-\pi$	0	π	2π	3π
y	0	1	0	-1	0



D: $(-\infty, \infty)$ R: $[-1, 1]$

3. $y = -3 \tan 2x$



x	y
$-\pi/4$	und
$-\pi/8$	3
0	0
$\pi/8$	-3
$\pi/4$	und

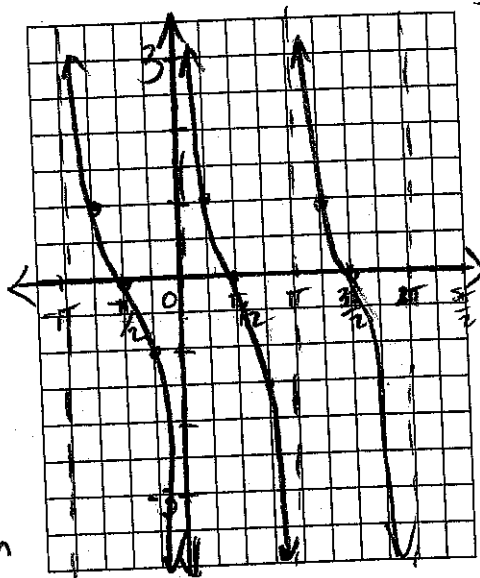
V.A: $x = -\pi/4 + \pi/2n$
 Domain: $x \neq -\pi/4 + \pi/2n$
 Range: $(-\infty, \infty)$
 * n is an integer

5. $y = -1 + \csc x$

x	0	$\pi/2$	π	$3\pi/2$	2π
$\sin x$	-1	0	-1	-2	-1
nd	0	und	-2	und	

main: $x \neq n\pi$
 Range: $(-\infty, 2] \cup [0, \infty)$
 V.A: $x = n\pi$; n is an integer

4. $y = \cot(x + \pi)$



x	y
$-\pi$	und
$-3\pi/4$	1
$-\pi/2$	0
$-\pi/4$	-1
0	und

D: $x \neq n\pi$
 R: $(-\infty, \infty)$
 VA: $x = n\pi$
 * n is an integer

