
2021 DECEMBER
SUN
MON
TUE
WED
THU
FRI
SAT
28
29
30
1
2
3
4
finish ch 6
5
6
7
8
9
10
11
review
review
Group Quiz
12
13
14
15
16
17
18
review
1,2
3,4
5,6
no School
19
20
21
22
23
24
25
26
27
28
29
30
31
1
2
3
return to school
4
5
6
7
8

All missing or incomplete work from ch.5 must be turned in by Friday!!

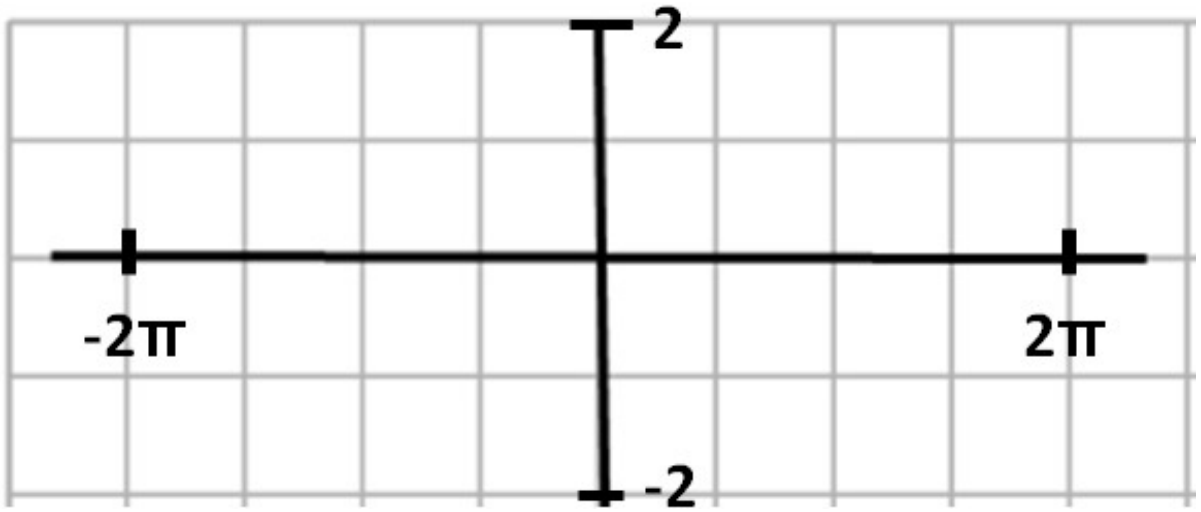
- **Group quiz is Friday**…please make arrangements in advance if you know you will be absent that day.
- **Extra credit passes** will be turned in next week on Monday and added to the homework category.
- **Final exam day:**
  45 minutes finish review assignment,
  75 minutes complete unit 5 test.

5.4 (part 1) CHECK ANSWERS #3-8

3. II **4.** III **5.** VI

6. I **7.** IV **8.** V

1. WARM-UP: graph y = sinx $-2\pi \le x \le 2\pi$



a. $\sin(-2\pi)$

b. $\sin\left(-\frac{\pi}{2}\right)$

c. $\sin(0)$

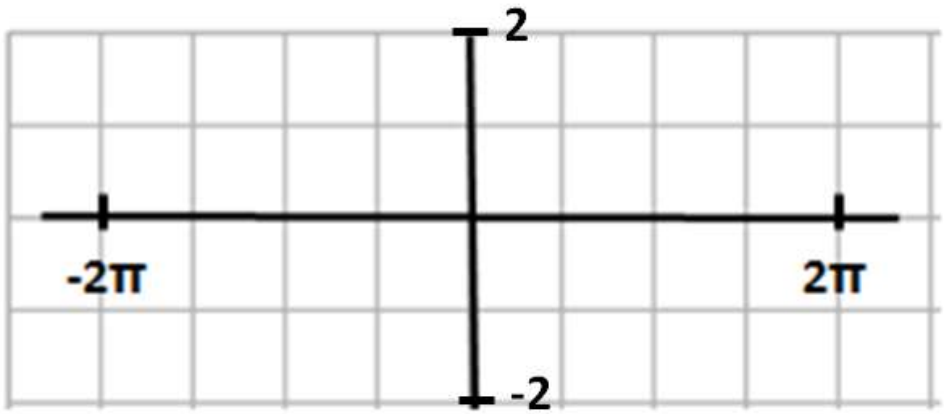
d. $\sin\left(\frac{3\pi}{2}\right)$

e. $\sin\left(\frac{5\pi}{2}\right)$

f. $\sin\left(-\frac{7\pi}{2}\right)$

WARM-UP
Sketch a graph for #1 and #2 on today's handout, then answer parts a – f by referring to each graph

2. WARM-UP: graph y = cosx $-2\pi \leq x \leq 2\pi$



a. $\cos(-2\pi)$

b. $\cos\left(-\frac{\pi}{2}\right)$

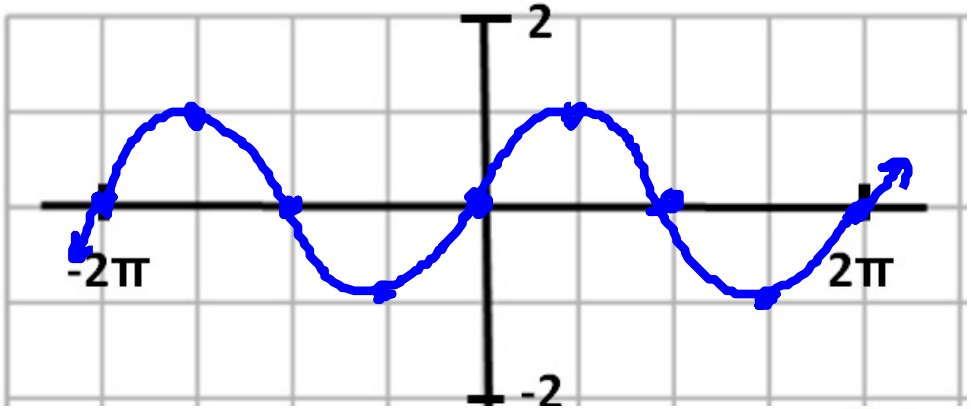
c. $\cos(0)$

d. $\cos\left(\frac{3\pi}{2}\right)$

e. $\cos\left(\frac{5\pi}{2}\right)$

f. $\cos(-3\pi)$

1. WARM-UP: graph y = sinx $-2\pi \le x \le 2\pi$



Check your answers!

a. $\sin(-2\pi)$ **= 0**

b. $\sin\left(-\frac{\pi}{2}\right)$ **= -1**

c. $\sin(0)$ **= 0**

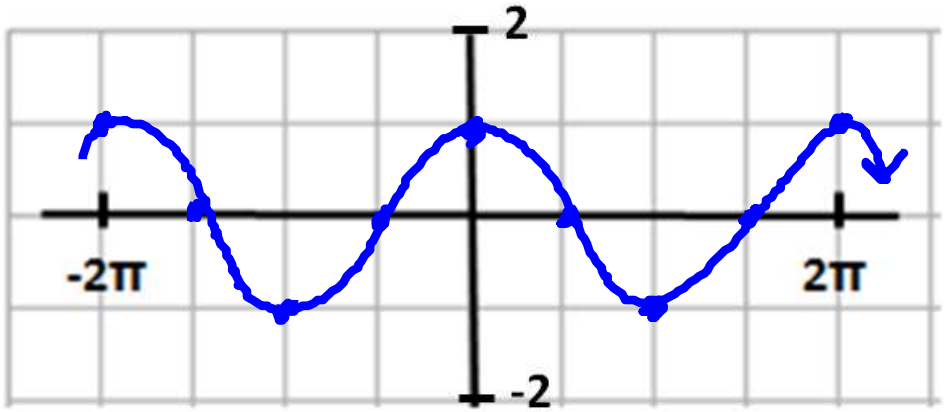
d. $\sin\left(\frac{3\pi}{2}\right)$ **= -1**

e. $\sin\left(\frac{5\pi}{2}\right)$ **= 1**

f. $\sin\left(-\frac{7\pi}{2}\right)$ **= 1**

Check your answers!

2. WARM-UP: graph y = cosx $-2\pi \le x \le 2\pi$



a. $\cos(-2\pi)$ = 1

b. $\cos\left(-\frac{\pi}{2}\right)$ = 0

c. $\cos(0)$ = 1

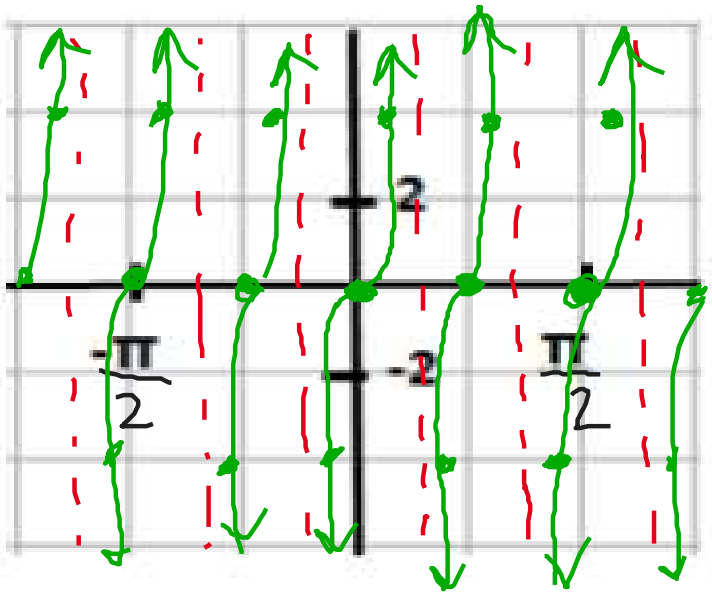
d. $\cos\left(\frac{3\pi}{2}\right)$ = 0

e. $\cos\left(\frac{5\pi}{2}\right)$ = 0

f. $\cos(-3\pi)$ = -1

46. equation:

$y = 4\tan(4x - 2\pi)$



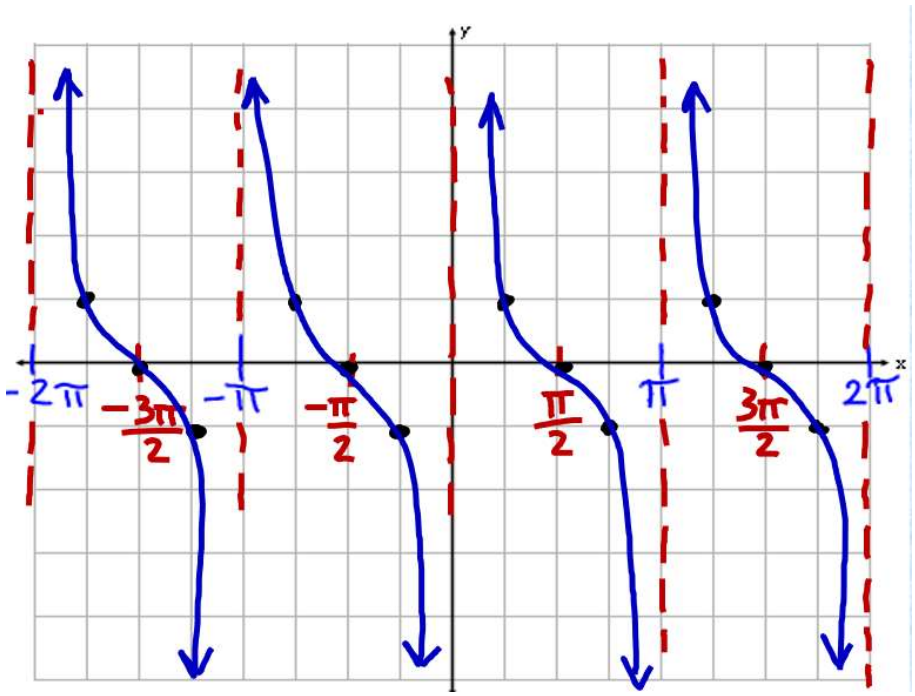
$y = \underset{a}{4}\tan 4\left(x - \frac{\pi}{2}\right)$ → right

per $= \frac{\pi}{k} = \frac{\pi}{4}$

REMINDER:

$$\tan x, \cot x \rightarrow per = \frac{\pi}{k}$$

$$\sin x, \cos x, \csc x, \sec x \rightarrow per = \frac{2\pi}{k}$$



y = cotx

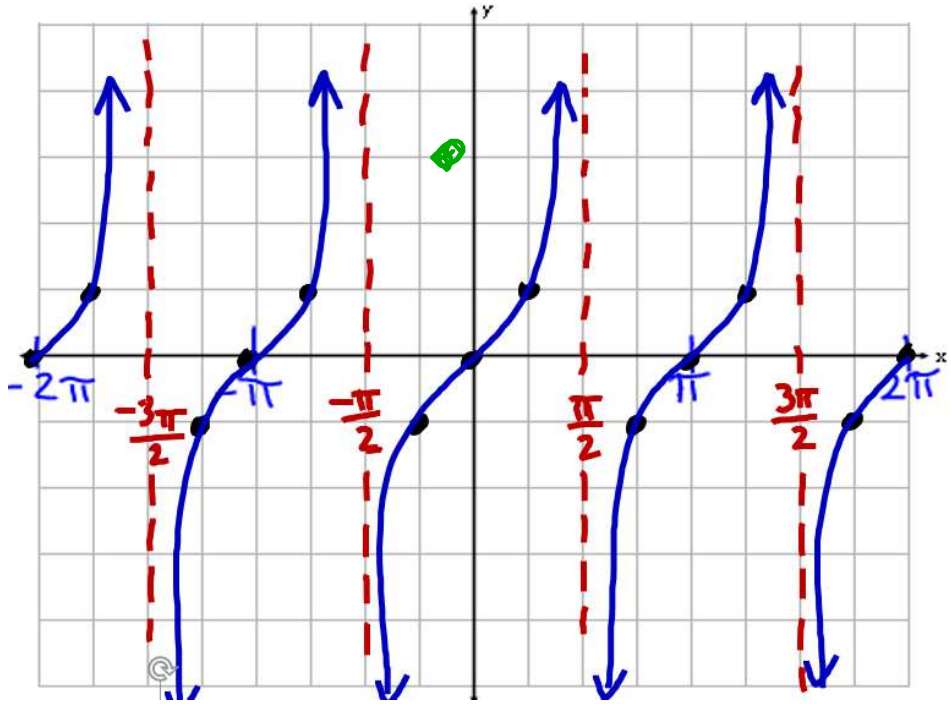
Parent graph for cot$x$:

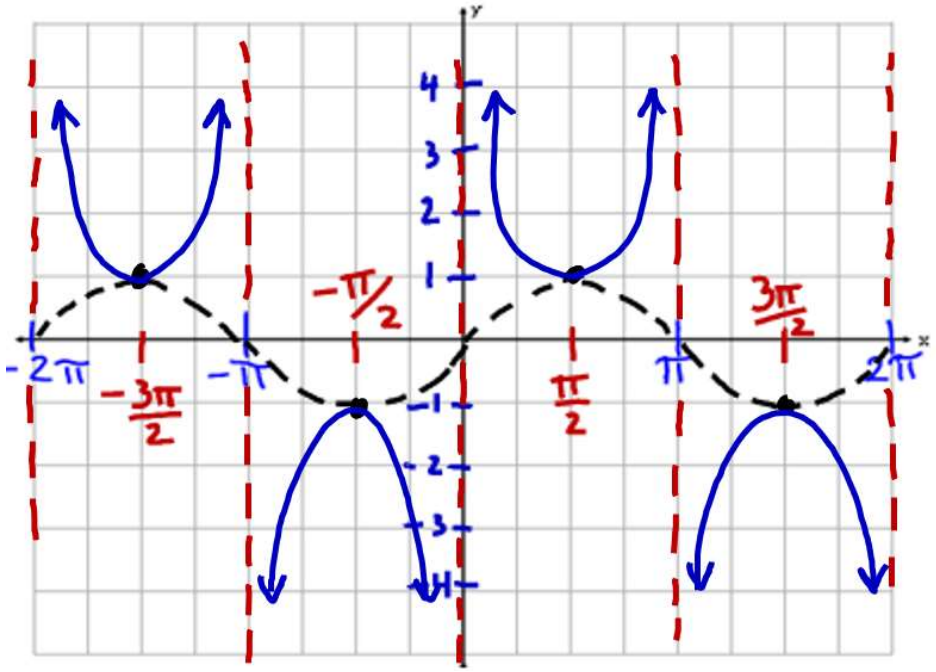
decreasing,
period = π,
asymptote thru (0,0)

Parent graph for tan$x$:

increasing,
period = π,
Curve passes thru (0,0)

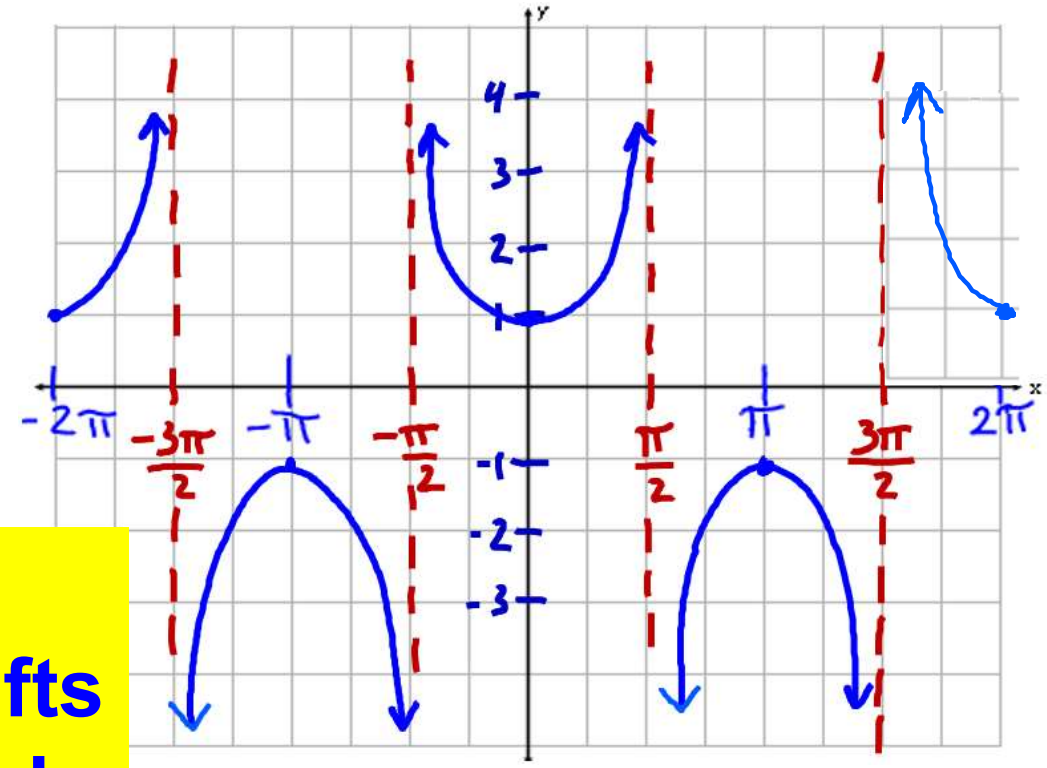
y = tanx



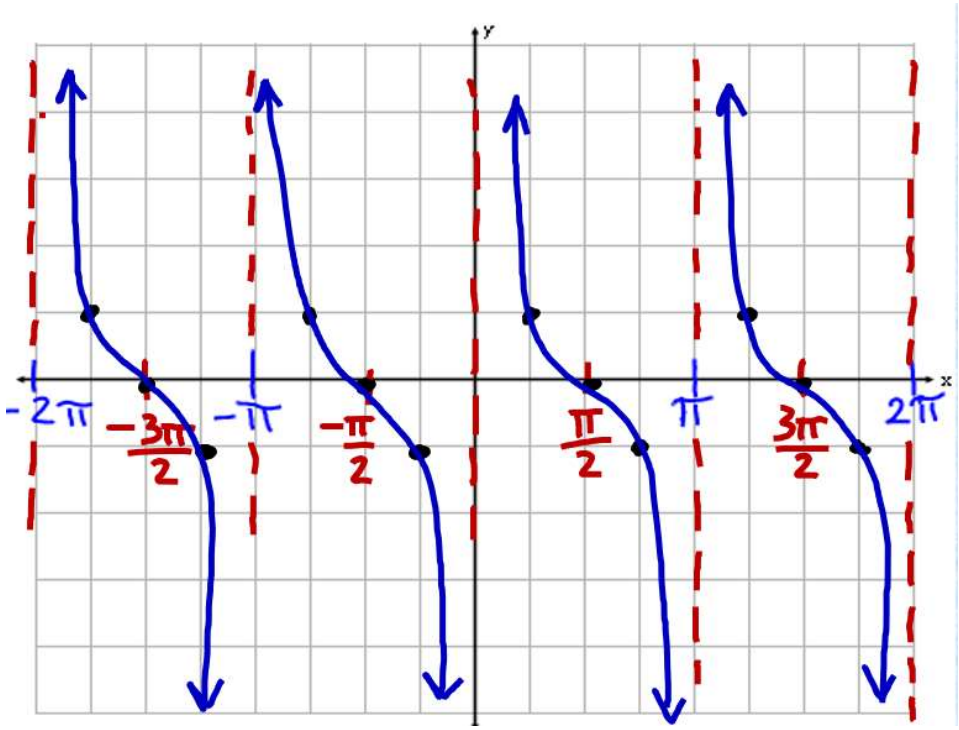


y = cscx

y = secx

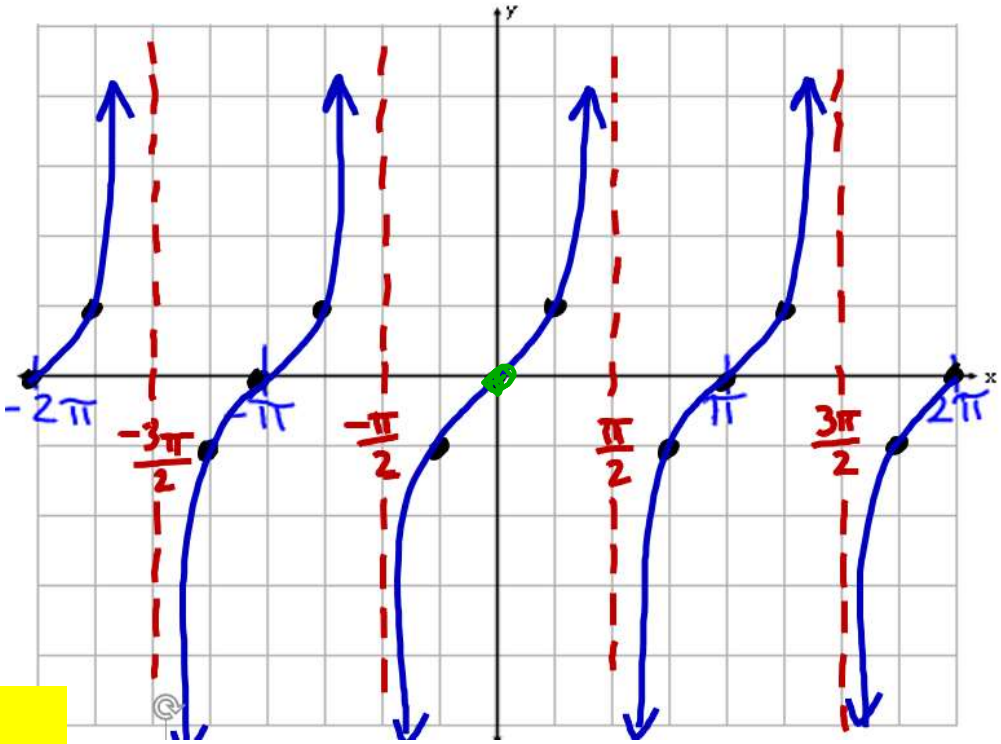


Parent graphs without vertical or horizontal shifts and no changes in period or amplitude.



y = cotx

y = tanx



Parent graphs without vertical or horizontal shifts and no changes in period or amplitude.