

Assignments for the week of Sept. 12:

- 45 minutes of Khan Academy
- Read 5.7 and "Trig Guide to Graphing" on brewermath.com
- Due Fri. 16 Sept:
5.7 #1-50 all; #53-64 all; 87-92 all
Ch 5 Review (pages 467-468) #1-27 odd; 53, 55
- Test #2 - This Friday, 9/16

Summary:

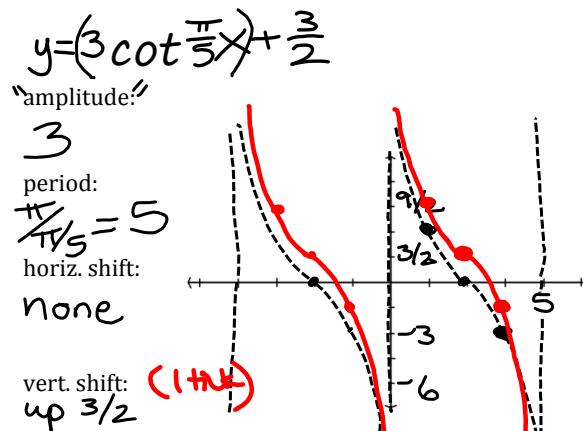
For a Trigonometric function of the form $y = af \left[b \left(x + \frac{c}{b} \right) \right] + d$,

Amplitude = $|a|$ (note that amplitude is always positive)

Period = $\frac{\text{original period of the function } (\pi \text{ or } 2\pi)}{|b|}$

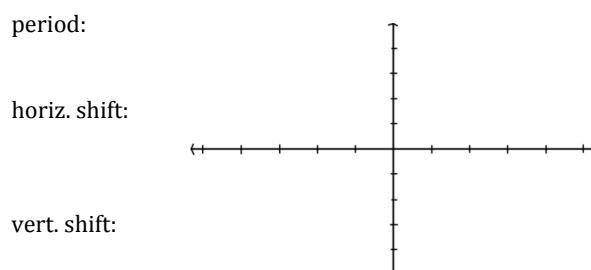
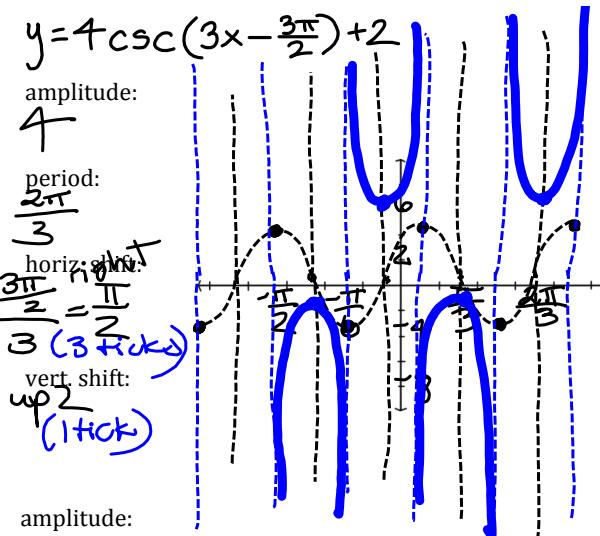
Horizontal shift = $\frac{c}{b}$, *left if $\frac{c}{b} > 0$*
right if $\frac{c}{b} < 0$

Vertical shift = d , *up if $d > 0$*
down if $d < 0$



$$y = \frac{1}{2} \tan\left(\frac{\pi}{2}x + \pi\right) - 1$$

"amplitude": $\frac{1}{2}$
period: $\frac{\pi}{2}$
horiz. shift: left $\frac{\pi}{2}$ (4 ticks)
vert. shift: down 1 (2 ticks)



$$y = \sin x + \cos x$$

