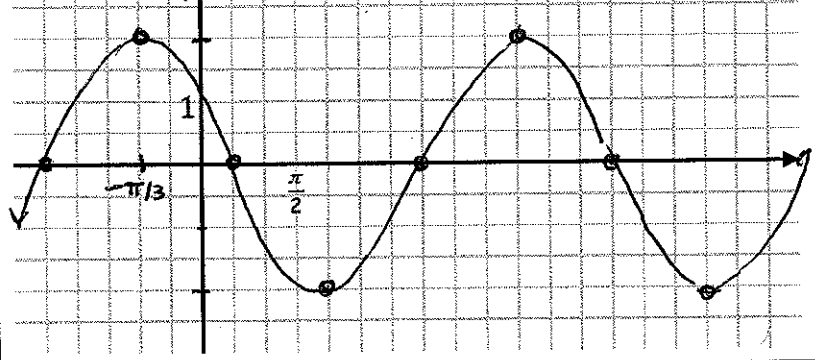


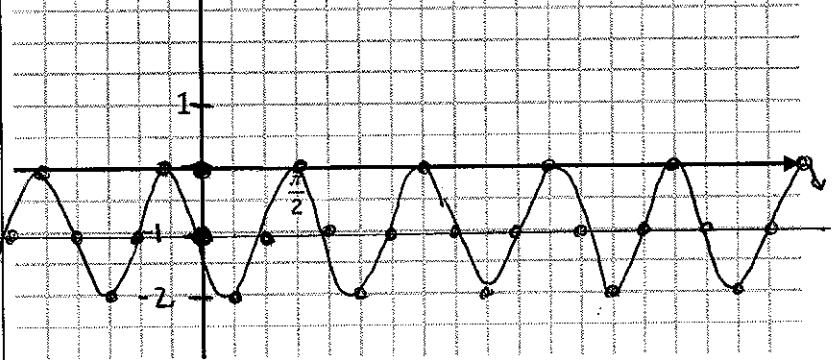
4.5-4.6 Practice Worksheet- Graphing Trig Functions

1.  $y = 2\cos\left(x + \frac{\pi}{3}\right)$



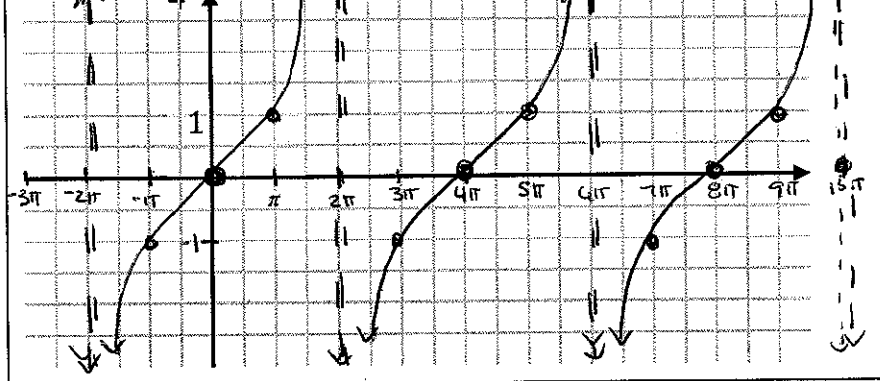
Amp: 2  
 Period:  $2\pi$   
 P.S.:  $-\pi/3$   
 (- $2\pi/\omega$ )  
 V.S.: none  
 Important Values:  $\pi/2$   
 ( $3\pi/\omega$ )

2.  $y = -\sin 3x - 1$



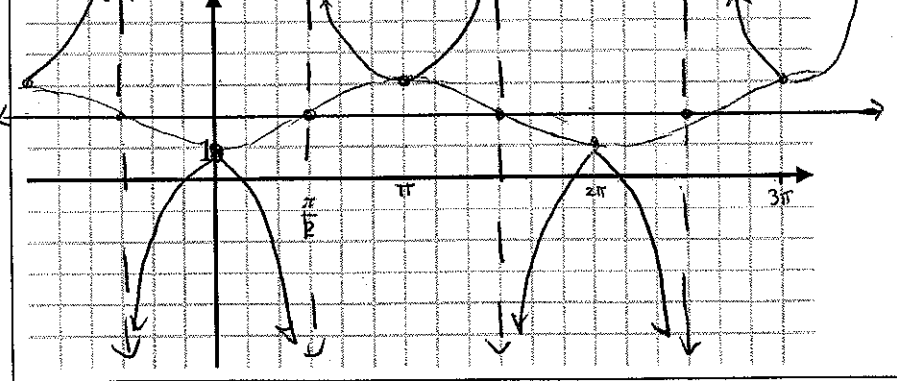
Amp: 1  
 Period:  $2\pi/3$   
 ( $4\pi/\omega$ )  
 P.S.: none  
 V.S.: -1  
 Important Values:  $\pi/6$   
 \* Reflect!

3.  $y = \tan \frac{x}{4}$       tan 1st intersection = 0      \* b = 1/4



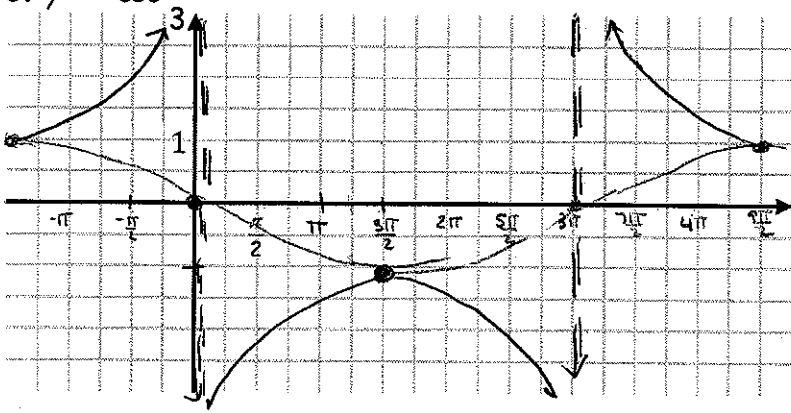
Amp: NA !!  
 Period:  $4\pi$   
 P.S.: none  
 V.S.: none  
 Important Values:  $\pi$

4.  $y = -\sec x + 2$       Sketch  $y = -\cos x + 2$   
 asymptotes where does  $\cos x = 0$ ?



Amp: None NA!  
 Period:  $2\pi$   
 P.S.: none  
 V.S.: 2  
 Important Values:  $\pi/2$   
 \* Reflect!

5.  $y = -\csc \frac{x}{3}$  Sketch  $y = -\sin(x/3)$   $b = \frac{1}{3}$



Amp: 1

Period: 6π

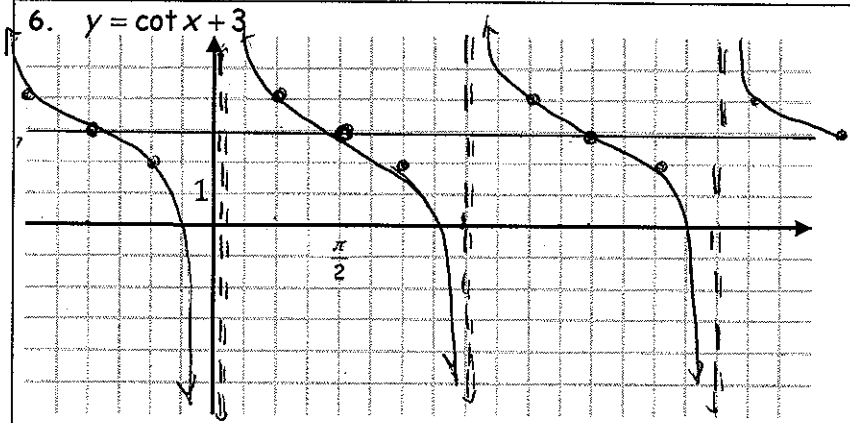
P.S.: none

V.S.: none

Important Values: 3π/2

reflect!

6.  $y = \cot x + 3$



Amp: NA

Period: π

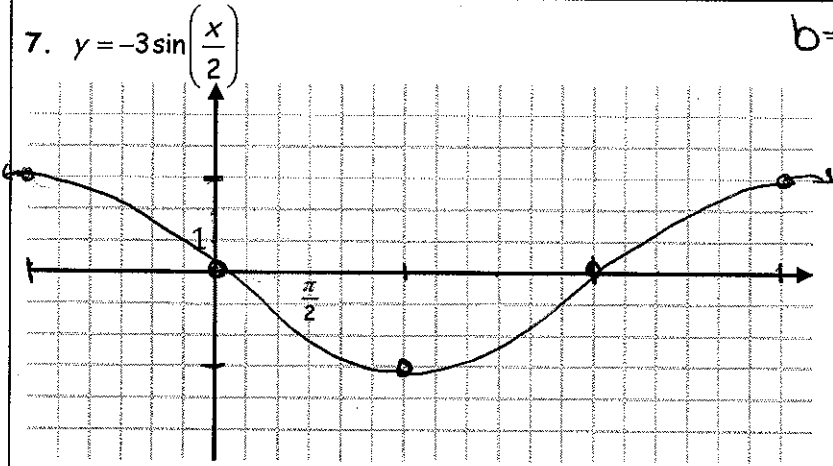
P.S.: none

V.S.: 3

Important Values: π/4

\*asympt starts @ 0 then every π : 1st intercept 1/2 way

7.  $y = -3\sin\left(\frac{x}{2}\right)$   $b = \frac{1}{2}$



Amp: 3

Period: 4π

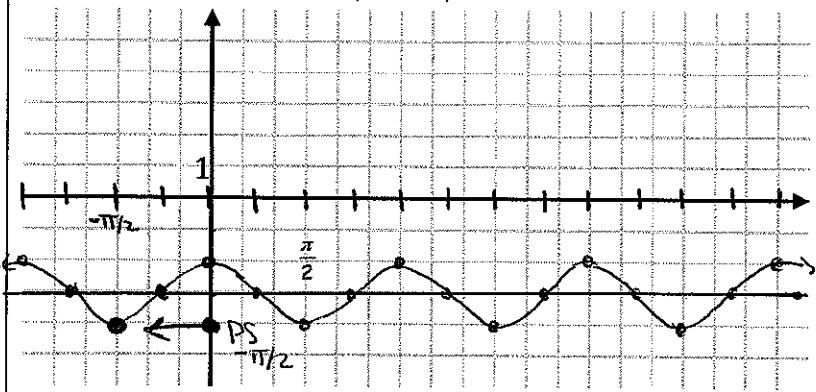
P.S.: none

V.S.: none

Important Values: π

Reflect!

8. Challenge:  $y = -\cos(2x + \pi) - 3$   $y = -\cos 2(x + \pi/2) - 3$



Amp: 1

Period: π

\*P.S.: -π/2

\*V.S.: -3

Important Values: π/4

\*Reflect!