Ex. 9 Graph the trig. function and find the amplitude, the period, and the end points of the phase shift.

suggested order graphing reflection Amp Pariod Phase Shift

Vertical Shift

a) y= 3 sin (2x-17)
Amp: |3| Per= 25

: 3

PS to the rig

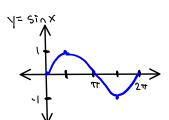
유(= 2발

TT

x=<u>r</u> 2x-n=0 px-c=0 bx-c=2m 2x-m=2m

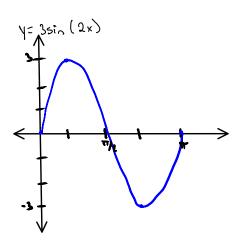
x= T Z Left EP

k: <u>1-7</u> Rt ep



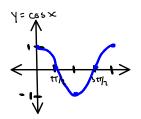
Y= 3550 X

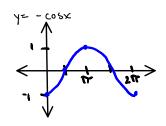
四,其,五,五

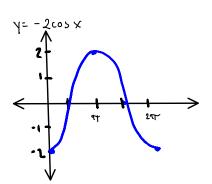


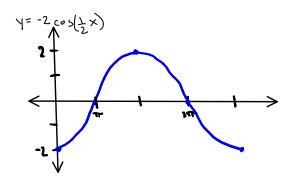
 $y = 3 \sin (2x - \pi)$ $(3\pi/4) 3$ $(\pi/6) (3\pi/4) 3$

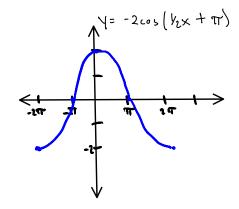
Reflection Amp = 1=	4 Per: 2m	<u>45</u>	
: <mark>1</mark>	: 2 11	px-c=0	P x-c= 54
	Yz	3×+#=0	2×+ w= 2m
V.s.= ↓ 2	= पार पुरुक्त	7×=-4	えx= か
	[0, 17,217,317,417]	x=-2¶	X= 21T
	•	lf€ ∉r	at ep

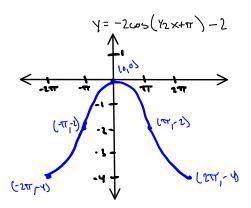








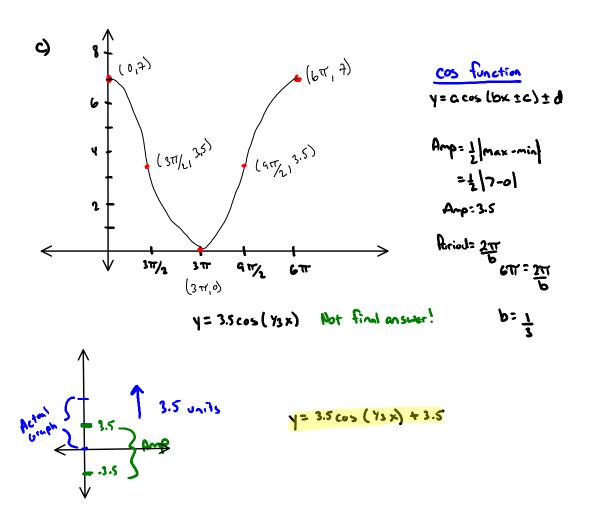






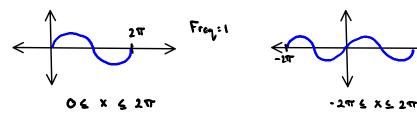
y= ±4 cos (3x - 3m)

b)
$$Amp= \frac{1}{7}$$
 $Per = \frac{1}{7}\pi$ $Ps = -\frac{1}{2}\pi$ $Ps = -\frac{1}{6}\pi$ Ps



Frequency

It is the number of cycles a trig function completes in a given interval.



It is the reciprocal of the period.

Graphing on a T: - 84

- When graphing on the calculator:

 (i) Radian Mode
 (i) 200 m 7 (trig) makes the x-axis into radions
 (ii) Change table interval to T/2 or TT

 ATDI = T/2 or TT or TK