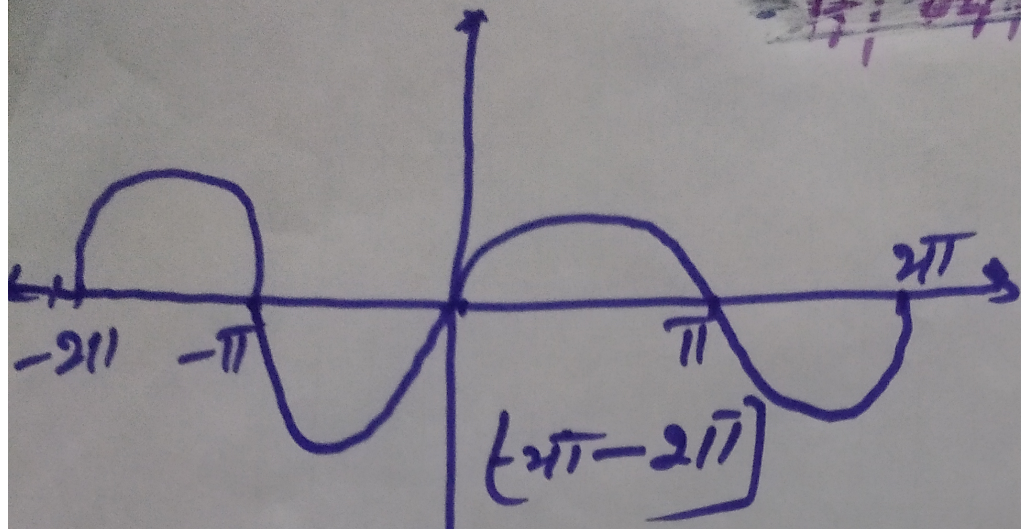
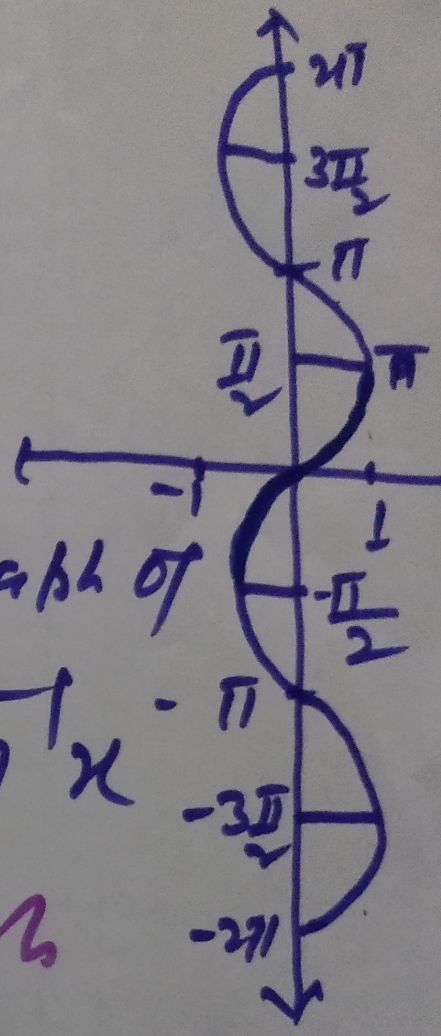


17/04/2020



$f(x) = \sin x$



Graph of

$\sin \pi x$

Lalan Kumar Singh

17.04.20



20 JUNE

20  $\frac{1}{2}$ -function  
 DAY 172-194 | Wk 25  
 SATURDAY

M	T	W	T	F	S	S	
					1	2	3
14	15	16	17	18	19	20	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

MAX 20

M	T	W	T	F	S	S	
					1	2	3
8	9	10	11	12	13	14	
15	16	17	18	19	20	21	
22	23	24	25	26	27	28	
29	30						

9	$\sin x$	R	$[-1, 1]$	$\sin^2 x$	$[-1, 1]$	$[-\frac{\pi}{2}, \frac{\pi}{2}]$
10	$\cos x$	K	$[-1, 1]$	$\cos^2 x$	$[-1, 1]$	$[0, \pi]$
11	$\tan x$	$R - \{\frac{\pi}{2}\}$	R	$\tan^2 x$	R	$[-\frac{\pi}{2}, \frac{\pi}{2}]$
12	$\cot x$	$R - \{0\}$	R	$\cot^2 x$	R	$[0, \pi]$
1	$\sec x$	$R - \{\frac{\pi}{2}\}$	$R - \{1, -1\}$	$\sec^2 x$	$R - \{1, -1\}$	$[0, \pi]$
2	$\csc x$	$R - \{0\}$	$R - \{1, -1\}$	$\csc^2 x$	$R - \{1, -1\}$	$[-\frac{\pi}{2}, \frac{\pi}{2}]$
3	any one					

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MTWTFSS	1	2	3	4	5
	6	7	8	9	10
	11	12	13	14	15
	16	17	18	19	20
	21	22	23	24	25
	26	27	28	29	30
	31				

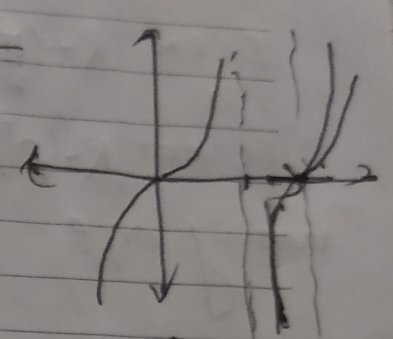
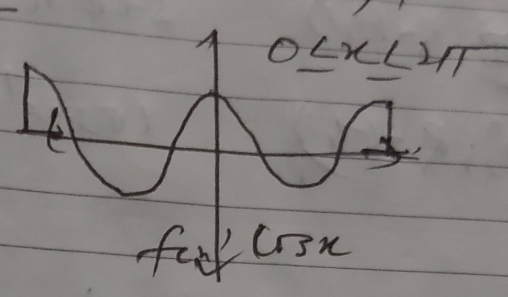
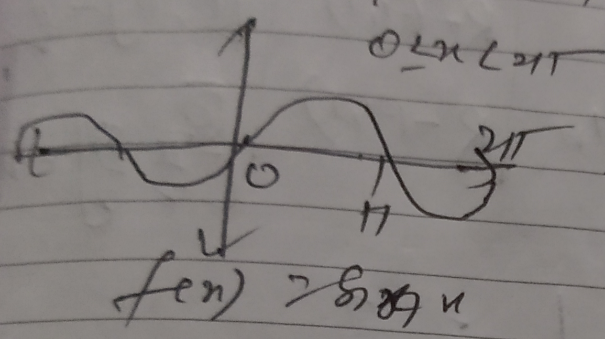
# CIRCULAR FUNCTION

JUNE '20

Wk 25 | DAY 171-195  
FRIDAY

19

You have already come across many type of functions from eleventh to twelfth. out of that we have largely discussed by inverse function. As you know only one-one functions have their inverse. You might have diagram or graph of all circular function like  $\sin x$ ,  $\cos x$ ,  $\tan x$  etc in your mind



these are many one-one functions.

Therefore inverse of these function cannot exist unless or until we restrict their domain

If we restrict the domain of the  $T$ -function then one can write its inverse.

Inverse of circular functions are written as

$$\sin^{-1} x, \cos^{-1} x, \tan^{-1} x, \cot^{-1} x, \sec^{-1} x \text{ and } \csc^{-1} x$$