

Clear;
-> Removes All variables, function and library from worksp
> clear window compole text.
3 elf; Delear comment graphics windows and constraints
-> Displayer the value of x dolo mont
- Displays forematted intexts some boson (ma) across (
Dolot (22, y, style) string to define colon, marke and vector of vector of vector of time style (10-1)
Jaco.
Desubplot (m, n, p) (x) (x) (x) (x) (x) (x) (x) (

-) Divide connent figures into an mxn grud son focus on the p-th plot onear

(a) legend ()
-> Adds - It legend to the pin
Exi plot (+, y, 'b-', +, con(2* %pi+5++) 'p');
legend(["Sine" "Cosine"])
Annay and Matrix function
Dlinspace (a, b, n)
-> Grenorates a now vector of n equally space poir
from a lab
Ex! t = linspace(0, 1,1000);
2 zerop(n,m) and onestr,m).
=> Creat a [nxm] matrix with 20 0/1;
Vec Zeron = 2 eron (1, 1000);
motones = ones (3,3);
3 length(x) and size(x)
neturn max return the dimentio of x as a
dimention two elemen veton Errow, collins

9	sprintf	A) , , , , , ; \ -• 64		
→	Returns a 1 str = sprin	formatted s	in his	Hz", 100;	
	dinp(stn);		, 2 m / f		ل

Mathenatical function

Sin(x), los(x) -> Compute sine & cosine in readius.

exp(x), log(x) -> expanent & natural logarithm.

abs(x) -> Absolute value

sign(x) -> Petunn -1,0.on

round(x) -> round to reorient integer

prod(x) -> product of all element in x

sum(x) -> sum of all element in x

min(x) -> minimum ~ ...

min(x) -> minimum ~ ...

ax(21) -> maximum ~ ...

Control statment O if condition then 1/5tatment elseit ~ then 1/5tatment	
else // statement polonie listantent.	
end $= 1:10 // 1 \rightarrow 10 $ Statement	

Parp 6

co (x)

· (x)6/1000

- (x) bong

· (x)/mu8

12. (N) x0

- while condition do 1/3tatment
- function y=my_function(x) 11 compute something with it
- y = 21.12 element vine operation end function. reining & - (x)ring

Signal processing Fundions

@ filter(b)a, 2)

=> implements a digital fiteron signal x uning

diffrence equation;

b -> Numerator (feed forward) co efficients.

a > Denominator (feedback) v (often a(1) in 1)

2 -> input signal

[y = filter(b,a, 2)

2 conv(25h)

-> Compute the convolution of 21 with h

y-Conv=Conv(x, h)

3) fff(2) and ifff(2)

purpose => fff(2e) -> Compute FFT of 2e : APPH(N) -> Compute inverse FFT

n= fff(n); n- reconstruct = liff+(n);