L1 15 September 2025 11:	:02		
	Tanalagu		
	Topology	-	
			(n=3)
METRIC S	SPACE. SET equipped	with notion of DISTANCE	Ex. EVCLIDEAN SPACE
			#3
EA	vsengue of N-Tuples		11
	· ·	measured with	
Ex. m = 2	$ \begin{cases} x_1 \\ y_2 \end{cases} $	MET RIC	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$D_{12} = \sqrt{(x_2 - x_1)^2 + (y_2)^2}$	
	J1 / []2 /	$(x_2 - x_1)^2 + (y_2)^2$	- Y ₁) z '
	P1 P2	D ₁₂ = \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
CONNECTED	METRIC for any t	ko ezinta Di Pi E Me I	1, 1'3
SPRO	= (M.) connected	uo points Pi, PJ & Ms. It if I lig connecting fi and	D-1
317.0	where Pig	∠ M 2 13	+1/
	w	e · · · · · ·	
	MsA		
(A)	Tig no	-SA IS LONGECTED	
	Pi Pi		
	., .		
	M _{Sg} M _{Sg}		
(b)		Mrs 13 NOT CONNECT	E D
	°P;) , , , , , , , , , , , , , , , , , , ,	
<u> </u>	150 = 1150 U 1150"		
'	ish = ish o ish		
DOMAIN.	connected subset of a	MOTIFIC SPACE	
	o MSA, MSA', MSA'		
	I ISA ISA INSA	ARC DO IMIN D	
	o MJB IS NOT DOMA	NI N	









