23rd Ma	y MTH230 - Linear Alge	bra [Study 41-50]
2024.		
4.	Invese Function	and the state of t
	The inverse function of mis simply a rule	
	that the rule of m. Cito the same	
337	Why shat addition and abtraction, inutiplication	
	and divisions are invese of each other)	
	Consequently the range	
	A-1.	
	Find the inverse of f(x) = x	Solve $f(x) = 4x - 3$ 2-x
	741	
	$\lambda = \frac{2(4)}{2C}$	$y = \frac{4x-3}{2-x}$
	y(x+1) = x	dy- ty = 4x-2
	yx +10 = >c *	- xy - xx = -2y-3
	yx - 2 = -y	X (-9-1) = - (2) +3) X = 7.43
	2(y-D =-y	X = Zy+3 Y+A
	x = -4	
	$\frac{2}{\sqrt{2}} = \frac{-3c}{3c-1}$	
	$\frac{3C-1}{\sqrt{C}}$	

Domain: The domain of a function for lo the completeset of all possible values of the independent variable. It simply means a set of all possible x values which will make the function work. The codomain of a function is the complete sot of all possible resulting value of the dependent variable after we have substituted the domain. Codemain = Range if All values in Domain map to Colonain Range & Codomain. Kange: The range of a function is the set of picture of its domain. In other word, we can say it is a debut of its codomain. 5=x2-81 -> domain = Real pumber. 4+81 = x2 x = J9+81 -> Codamain = >81

Mapping Mapping is a relation because it is another prend bed way of assigning to each object in one set to aparticular object in another set. A mapping is all called function, transformation, operator. Every mapping is a relation, but every relation may not be a mapping. Find out if Ris a mapping from A > B A = {3, 4, 53 B = {6, 7, 8, 9} $R = \{(3, 6), (1, 7), (5, 8)\}$ R= & (3,6), (3,7), (5,8) 3 functions need/ clause A value in the domain cannot map to more than one value in the codomain (in a mapping) A value in the codomain can have more than one values in the domain. Type of Mapping, One-to-One: Only one doment in the demain can have one value in the codomars Onto Mapping (15 = x2) More than one dement in the

domain can map one element in the condemain

23-d May 2024