	Problem 1
1)	Married To o Sibling Of: Married To (Sibling Of (X))
	X is brother in law or sigter in law
4.	Siblinger o Married To: Sibling Of (Married To(X)) X is brother or sister's spouse
	SiblingOf (Arrow diagram)
	Andie
	Chris = Julie
	Briane
	Kristina () Paula
	Jessica -> Angela
	Luke Sernifer

	- Marian Paris and Carlotte
Relation	Married To (Arrow diagram)
Andy _	> Jennifer
Katie <	
chrise	> Paula
Brian	Jessica
KristinaŁ	
Julie	Angola
abuste '+	
Man O de	
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2) SOR - X is a student enrolled in course c taught by instructor b Here x - student b-instructor c - course (x, c) ER and (c, b) ES (x, b) E SOR 3) S-Instructor b is born in town y 4) a) (9 of) (2) = 9 [f(2)] = 9(22+1) $= (22+1)^{2}-1$ = 42(2+1) b)(f 0 g)(z) = f [g(z)) $=f(2^2-1)$ = 2(224-1)+1 = 222-1

a) It is a function Reason: Every string in S maps to unique value in Z [or] Each element in domain has unique value in codomain b) Not a function feason: For any age in domain, there will be more than one people in codomain associated with it c) Not a function Reason: Any person in domain can have multiple people in codomain as siblings