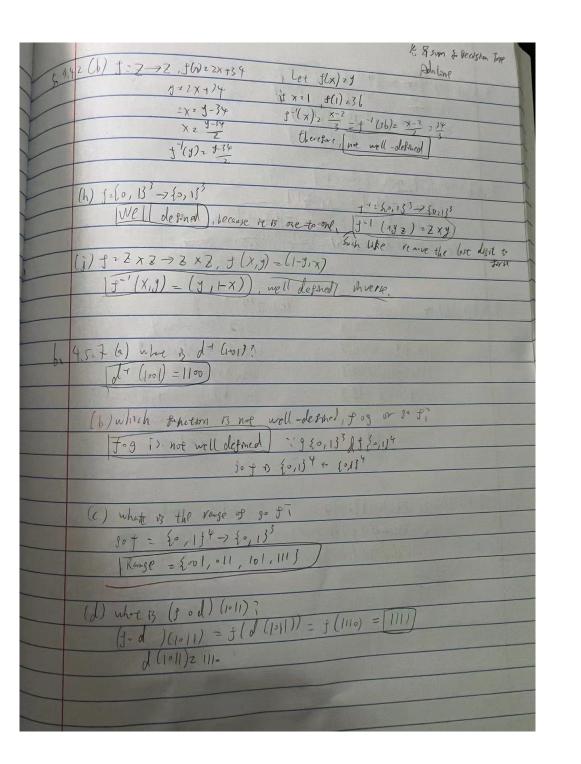


\$ (100) 2000, \$ (001) 20010 \$ (010) = 0 000 \$ (011) = 0110 J(100)=1001, J(101)=101 J(110)=1101 J(111)=1111 One-to-one, not onto) For example, lovo B missing. (f) A {1,213,4,5,6,7,8} fip(A) -> P(A), X = A, f(x)=A-X Onto and one-to-me For example, let ZEPIA), ZEP(A) =7 ZSA A Z & A J(A Z) = A - (A-Z) = Z A-Z EP(A) ... Onto Let, X, y = P(A), so t(x) z f(y) $f(x) = f(y) = A \cdot X = A \cdot Y$ Xzy. if X & y, f(x) = f(y), oncto me (3) A(1,2,3,4,5,6,1,8), B2(13, J=P(A) - P(A), XEA, S(X)=X-B Not one-tr-one, not onto For example, {1,2,3} EP(B) {1,2,33-4132{2,33 , {2,33 GP(A) {2,3} -1 = {2,3} not one-to-one {1,2,3} GP(A) but it B not the image of any X & P(a), not only (i) A = {a,b,c}, h = P(A) = (A), For X = A, h(X) = X v {a} (Not one-to-one, not onto). For example, let X, = {b, c3, x 2 2 {a, b, c} h (x) = {h, 3 v {a} } = {a, b, c} ; h(x) = {a, b, 3 v {a} = {a, b, c}} X, +X2 but h (xi) zh(x), not one -t-one Also, let (b) GP(A) {65 EAZ {a, b, y Ah (x)= 86] = XV 29 32 86] a € Ebs, not onto



7.46,1 (d) 62k-1 = 62k-1.6 k = 63k-1	
(3) $\begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix} = \begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix} = \begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix}$ (3) $\begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix} = \begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix} = \begin{bmatrix} k_{1} \\ k_{2} \end{bmatrix}$	
8, 46, 2 (b) $z \cdot \log_5 K = \lfloor \log_5 K^2 \rfloor$ (c) $\log_5 K - \log_5 7 = \lfloor \log_5 \frac{K}{4} \rfloor$ (d) $(\log_3 K) / (\log_3 s) = \frac{\log_5 K}{\log_5 s} = \lfloor \log_5 \frac{K}{4} \rfloor$ (e) $(\log_3 (K^2)) / (\log_3 25) = \frac{\log_5 K}{\log_5 s}$	135 K 1035 15 = 1035 K = 21035 K = 1035 K
9 4.63 (b) 4 632 x = y (c) 632 4 632 x 2 632 y (632 x)(632 4) 2632 y (632 x)(632 x) 2 = 632 y 1032 x 2 = 692 y 1032 x 2 = 692 y	2 (34 x = y) (0) 42 (34 x) = (034 y) ((0) 4 x) ((0) 4 2) = (034 y) ((0) 4 x) ((15 4 4 112) = (0) 4 y) ((0) 4 x) (1 5 4 4 112) = (0) 4 y ((0) 4 x) (1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
10, 4, 7, 1 (d) [77. (-65)+147] mod 7 = (7×4)-65) mod 7 + (7×21) mod 7 = 0 (-65) mod 7+ 0 mod 7 = 0)	(e) 44 12 mod 6 = (44 mod 6) 2 mod 6 = (1) 6 mod 6 (22 mod 6) mod 6 = (1 mod 6) (4 mod 6) mod 6 = (1 4) mod 6 = (1 4) mod 6

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13,5	, 2, 3 (d) f(X, y, Z)2オダゼナオリ	Z + X	ÿ Z+	XyZ				
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141-	71-6) -	T =	xyz+xyz+	Xvz =	=(X	引之人	XYZ,	L XYZ	172/	

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	() f(x,y,z) = piv=	(+,)	ALC DAME DESCRIPTION
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1	12 Thai		

