.01)	7) f= {(x,y) ∈ Z × Z:3x+y=43 8)	f(m,n) = (m+n, 2m+n)
[2.1]	- This function is from Z to Z	- Suppose f(m,n)= f(a,b) for some
	Since 3x+y = 4 1f and only if	a, b, m, n & 2 . Then (m+n, 2m+n)=
	y= 4-3x, as f: Z>Z defined	(a+b, 2a+b). So m+n=a+b and
	as f(x): 4-3x	2m+n=2a+b, 2m+n-(m+n)=
	a) f= {(x=, x): x e/R}	2a+b-(a+b) => m=a. But mtn
	- No. If f contains the coords	= a+10. So a+n=a+b, subtracting a
	(4,2) and (4,-2), then 4 will	from both sides, n=b. Then (m,n)=(a,b),
	occur as the first coordinate of	sof a interne.
	more than 1 element of f.	- Suppose (x,y) = Z x Z. (m+n, 2m+n) = (x,y).
	10) F= { (x2, x) x & 1R}	We need X=m+n and y=2m+n. Then
	Yes, because for f= {(x3,x) xGP}	n=x-n, y=2x-2n+n, y=2x-n, n=2x-y, -2x+y+x=m=y-x
	=> f = { (x, x'3) x G R} For any	f(y-x,2x-y) = (y+x+2x-y,
	X, X ¹³ is unique.	2y-2x+2x-y)=(x,y).
12.2	(a) (b) $f(m,n) = 3n - 4m$	Thus is subjective.
	- Let f(m1, m1) = f(m2, n2) 3 n1 - 4m1 = 3n2 - 4m2	
	3(n1-n2)=4(m1-m2)	
	Let n1=5, n2=1, m1=3, m2=0	
	Thus (3,5) and (0,1), f(m,n)	
	insective	
1	- tor any 2n-4m, we must find (m,n)	
1	Any humber is can be written in	
1	the form 3 n - 4m, Thus is 1+	
	surjectue.	
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