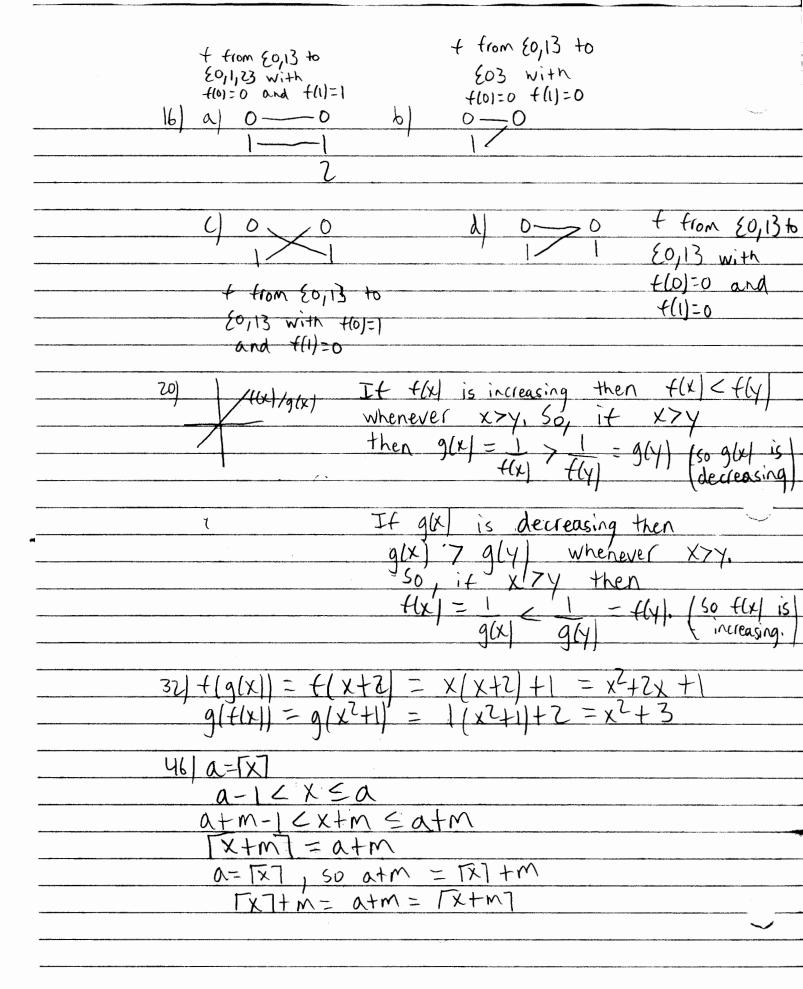
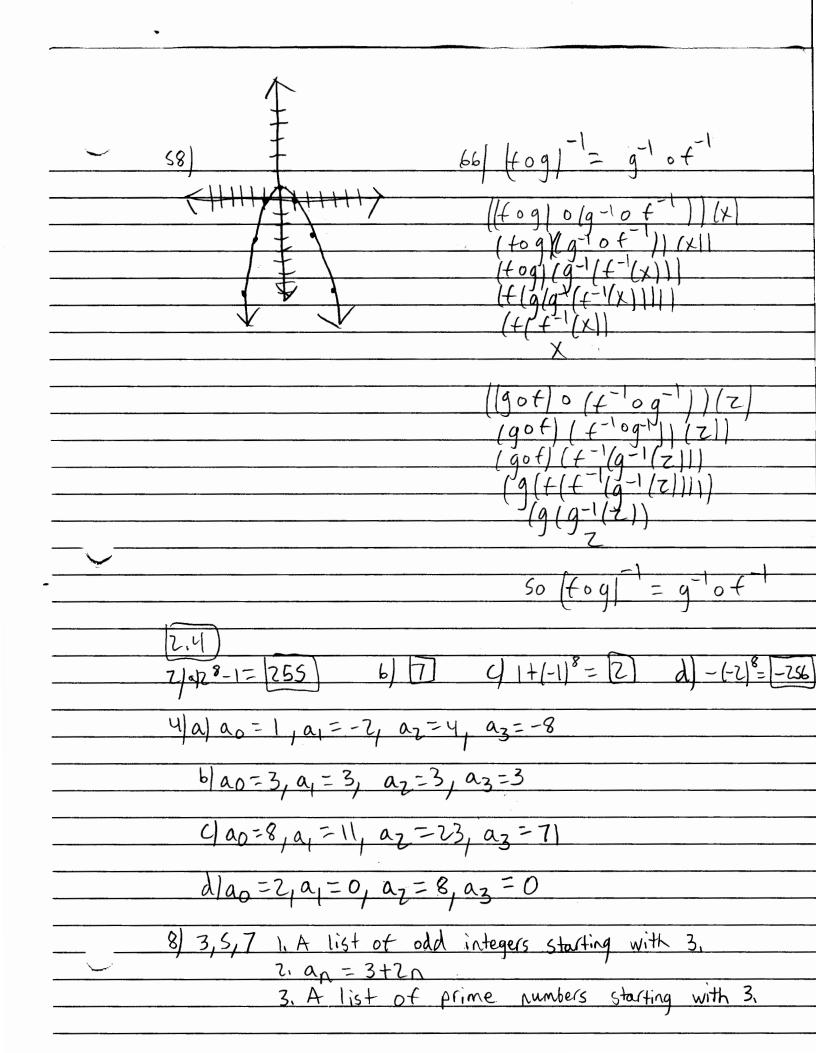
Asn 4

	[23]
	y a) Not a function b) yes, function y not a function, the las two (12) is undefined
	values for n
	III at Nous's cot of a constitution into const
	4) al Domain: set of nonnegative integers Range: set of nonnegative integers
***************************************	bl Nomin' sot of interps
	b) Domain's set of integers Range: set of positive integers
	•
	Olomain: set of bit strings Range: set of nonnegative integers
****	Range; set of nonnegative integers
	d Domain: Set of bit Strings
	d) Domain: set of bit strings Range: set of nonegative integers
	8/a) 1 6/2 c/-1 d/o e/3 f/-2 g/1
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	10/a/a a yes, 6/a a no,
	b one-to-one b not one-to-one
	d - d
	c) a a No, Not
	c c (one-to-one)
	$a \longrightarrow a$



10) a) an=3+2n+n²
123, 146, 171 distarting with I in I bit binary continue to count in binary. 1100, 1101, 1110 Fibonacci's sequence with repetition: one 1,
three Z's, five 3's, seven S's, nine 8's, eleven
13's, etc. 8,8,8 an = 3 -1 59,048 177,146 531,440 The sequence of odd factorials using only odd numbers, ie (5! = 1.3.5 = 15/9! = 1.3.5.7.9 = 945, 654,729,075 1.37493105810 3.16234143211 one 1, two 0's, three 1's, 40's, 51's, etc 0,0,0 2^{n} 2^{64} = 1, 844674407 2^{10} 2^{128} = 3,402823669 2^{256} = 1,157920892 6) ot 1+5+19+65+211+66S a) 2+0+2+0+2+0+2+0+2 +2059+6305 y 5+12+30+78+210+582+1(50 +4758+13890 2+4+8+16+32+60 + 128 + 256



$\frac{ a \hat{\Sigma} (a_{j} - a_{j} - 1)}{ a } = \frac{a_{j} - a_{0} + a_{2} - a_{1} + a_{3} - a_{2} + a_{4} - a_{5}}{ a }$
Because every term in the sequence except ao and an will be canceled out \[\begin{array}{c} \((a_j - a_{j-1}) = a_n - a_0 \\ \end{array} \]
$\frac{20}{2} = \frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20}$
32/a) Countable th=10tn=10tm 12 1 45 th=m 12 13 14 15
b) countable $f(n) = -(2n+1) = -(2n+1) \mid 2 \mid 3 \mid 4 \mid 5$ $f(m) = m$ $1 \mid 1 \mid 2 \mid 3 \mid 4 \mid 5$ $-1 \mid -3 \mid -5 \mid -7 \mid -9$
4 uncountable
$\frac{d Countable }{f(m)=2m} = \frac{0 2 3 4 5}{10 - 10 20 - 20 30}$ $+(x)=10n$
t(m)=2m+1

