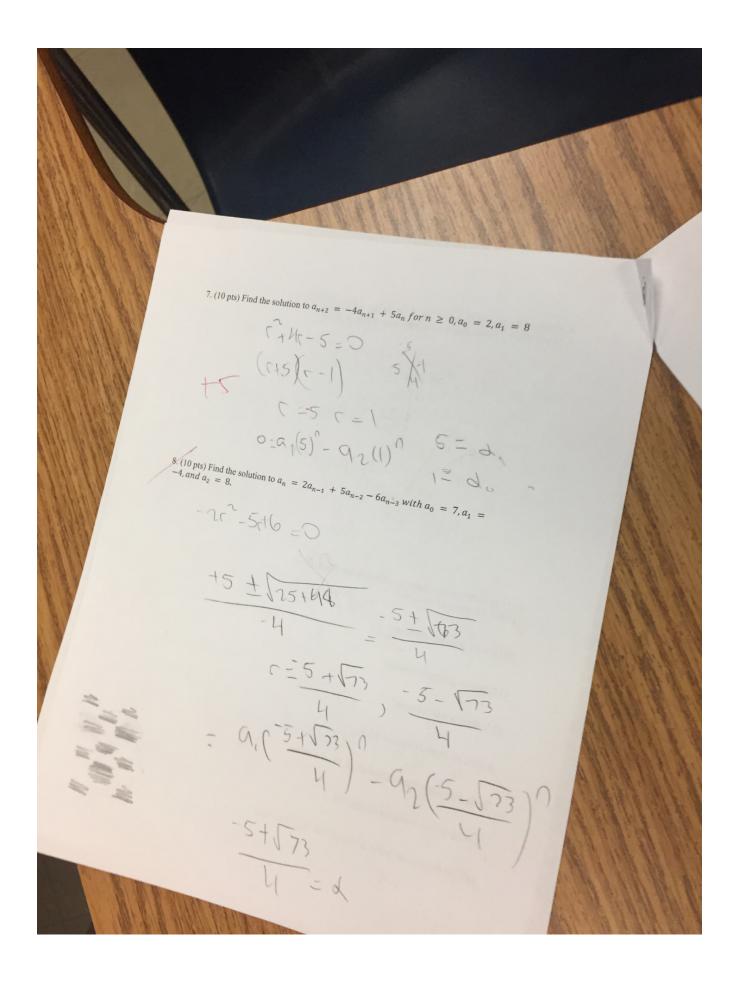
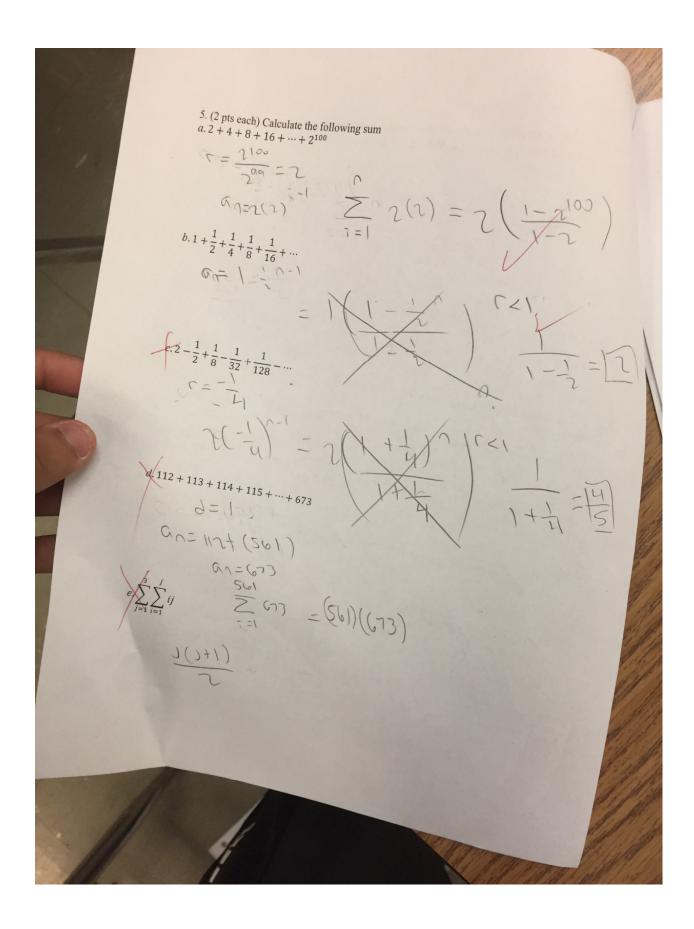
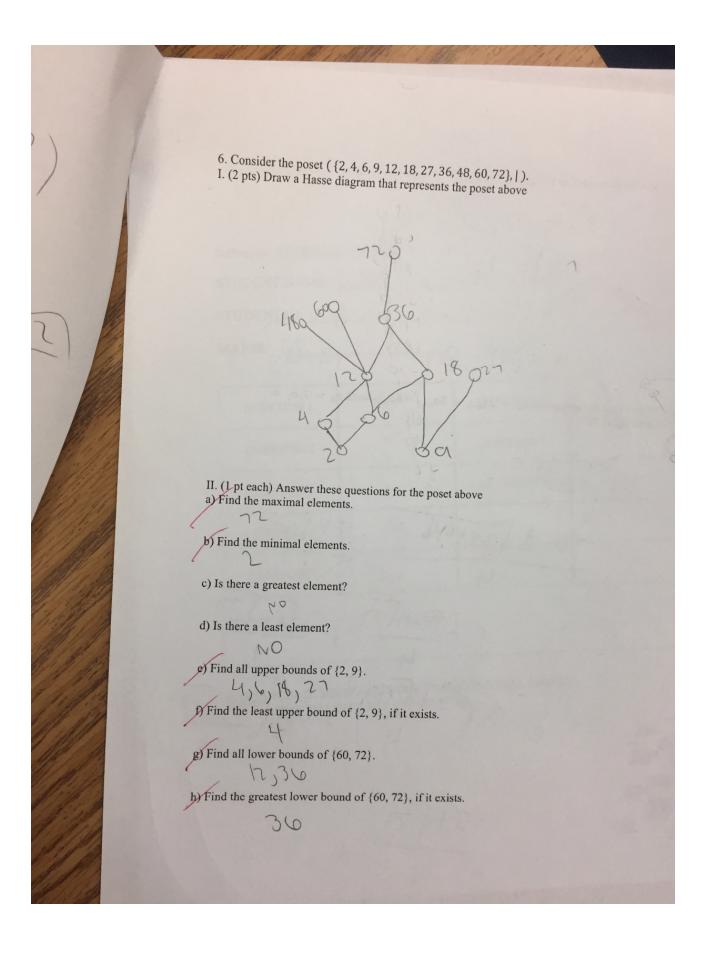
Midterm 2

Friday, May 19, 2017 5:15 PM







(c, d) $\in R$ if and only if $a + d = b + c$. Show that R is an equivalence relation	
(c, d) $\in R$ if and only if $a + d = b + c$. Show that R is an equivalence relation.	
Total Controls.	
$((a,b),(c,d)) \in \mathbb{R}$	
ctd = btc	
CHd=btc 1+H=2+3	
= $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$ $=$	1
SYMPETRIC: and = bt c = bt c = and (ab) (ab) (ad) (ad)	Q.
ata shtc.	
BEETECHE: ((a'p) !(c)q)) =	
4. (2 pts each) Suppose that a "word" is any string of seven letters of the alphabet, with repeated	
a. How many words are there? f. How many words contain exactly one A?	
7.(26)	
b. How many words begin with R and end g. How many words contain the string	
SEVEN in it?	
3	
c. How many words begin with A or end	
o. How many words begin with A or end with B? 16 + 2 + 2 + 2 + 5 + 5 + 5 + 5 + 5 + 5 + 5	
26 + 26 5 . 26 . 5	
d. How many words begin with A or B or end with A or B?	
end with A or B?	
(2.76) +(7.76) 5	
	Н
e. How many words begin with a vowel or j How many words contain exactly two	
end with a vowel? vowels?	
2 = 5 ² 24 ³	
40	
	19-21

