QUESTION 1			Not yet answered Mark	ed out of 10.00 V Flag question 😯
	-	n which the use of the axiom at a and b are nonzero eleme		ngs is not made explicit. nen a does not have a multiplicative
inverse.				
Proof. Suppose that <i>a</i> had	a multiplicative inverse. Th	e given equation implies tha	it $a^{-1}ab = 0$. But also $a^{-1}ab =$	b , contradicting the fact that $b \neq 0$.
Which property is used to p	prove a-1ab = 0?			
Which two properties are u		them in the order you would	d use them when simplifyin	g a ⁻¹ ab to b. First
	, then			
One more property is need	ed in this proof, but the not	ation makes it ambiguous e	xactly where it is used. Whic	ch property is this?
Dlease look at the lecture r	notes to remind vourself e a	. what "Proposition 3.13" is.		
identity law for ·	distributive law	definition of inverse for	Proposition 3.13	definition of inverse for +
2 2 2 2 2 2 2	1			
associative law for +	commutative law for +	identity law for +	associative law for ·	cancellation property
UESTION 2			Not yet answered Mark	ed out of 10.00 F Flag question 🌣
Let f = (1 3 4 6)(2 8 9 5) and	g = (1 4)(2 9 5)(6 8) be perm	utations in S ₉ , written in cyc	le notation.	
What is the second line of t	in two-line notation? Enter	it as a list of numbers separa	ated by single spaces.	
Let $h = f \circ g^{-1}$. What is h in G	cycle notation? Enter single	spaces between the number	s in each cycle. Do not type	spaces anywhere else in your
answer.				11
UESTION 3			Not yet answered Mark	ed out of 10.00 F Flag question 💠
		efined so that $(f, g) \in S$ if and		
□ c. Every equivalence□ d. Every equivalence	class of S contains exactly class of S contains exactly	a polynomial $f \in \mathbb{R}[x]$ is dividence constant polynomial, one polynomial of degree at which a is	most 1.	
UESTION 4			Not yet answered Mark	
Carry out Euclid's algorith b_3 , produced by the algorith $b_2 =$	n to find <i>d</i> = gcd(23, 17). In t			ed out of 10.00 Flag question 🌣
	hm.	the notation of the lecture n	otes, b_0 = 23 and b_1 = 17. En	ed out of 10.00 PF lag question the ter the first two remainders, b_2 and
b ₃ = Now carry out the extension of successive remainders.	on to Euclid's algorithm. In t Enter the integer coefficient		ou will express d as an inte	
$b_3 =$ Now carry out the extension of successive remainders. If $d = b_2 + b_3 + \cdots + b_4 + \cdots $	on to Euclid's algorithm. In t Enter the integer coefficient $\cdot b_3$	he course of the algorithm, y	ou will express d as an inte	ter the first two remainders, b_2 and
b_3 = Now carry out the extension of successive remainders, $d = b_2 + d = b_1 + d = b_1 + d = b_2$	on to Euclid's algorithm. In t $oldsymbol{\mathrm{E}}$ Enter the integer coefficient $oldsymbol{\cdot} b_3$	he course of the algorithm, y s that arise for the last three	rou will express <i>d</i> as an inte steps.	ter the first two remainders, b_2 and graph of the first two remainders, b_2 and graph of the first two remainders, b_2 and b_2 and b_3 and b_4 are the first two remainders, b_2 and b_3 are the first two remainders, b_2 and b_3 are the first two remainders, b_2 and b_3 are the first two remainders, b_3 and b_4 are the first two remainders, b_2 and b_3 are the first two remainders, b_3 and b_4 are the first two remainders, b_3 and b_4 are the first two remainders, b_3 and b_4 are the first two remainders, b_4 and b_4 are
b_3 = Now carry out the extension of successive remainders. If $d = b_2 + d = b_1 + d = b_0 + d = b_0$	on to Euclid's algorithm. In t $oldsymbol{\mathrm{E}}$ Enter the integer coefficient $oldsymbol{\cdot} b_3$	he course of the algorithm, y s that arise for the last three	rou will express <i>d</i> as an inte steps.	ter the first two remainders, b_2 and
b_3 = Now carry out the extension of successive remainders. If $d = b_2 + d = b_1 + d = b_0 + d = b_0 + d = b_0 + d = d = b_0 + d = d = d = d = d = d = d = d = d = d$	on to Euclid's algorithm. In t $oldsymbol{\mathrm{E}}$ Enter the integer coefficient $oldsymbol{\cdot} b_3$	he course of the algorithm, y s that arise for the last three	rou will express <i>d</i> as an inte steps.	ter the first two remainders, b_2 and b_3 and b_4 and b_4 and b_5 and b_6 and b_6 are first two remainders, b_2 and b_3 and b_4 are first two remainders, b_2 and b_3 and b_4 are first two remainders, b_2 and b_3 are first two remainders, b_2 and b_3 are first two remainders, b_2 and b_3 are first two remainders, b_3 and b_4 are first two remainders, b_2 and b_3 are first two remainders, b_3 and b_4 are first two remainders, b_2 and b_3 are first two remainders, b_3 and b_4 are first two remainders, b_2 and b_3 are first two remainders, b_3 and b_4 are first two remainders, b_4 and $b_$
Now carry out the extensic of successive remainders. If $d = b_2 + d = b_1 + d = b_0 + d$ than 12.)	on to Euclid's algorithm. In t $oldsymbol{\mathrm{E}}$ Enter the integer coefficient $oldsymbol{\cdot} b_3$	he course of the algorithm, y s that arise for the last three	rou will express <i>d</i> as an inte steps. n. The last number you ente	ter the first two remainders, b_2 and graph of the first two remainders, b_2 and graph of the first two remainders, b_2 and b_2 and b_3 and b_4 are the first two remainders, b_2 and b_3 are the first two remainders, b_2 and b_3 are the first two remainders, b_2 and b_3 are the first two remainders, b_3 and b_4 are the first two remainders, b_2 and b_3 are the first two remainders, b_3 and b_4 are the first two remainders, b_3 and b_4 are the first two remainders, b_3 and b_4 are the first two remainders, b_4 and b_4 are
Now carry out the extension of successive remainders. If $d = b_2 + d = b_1 + d = b_0 + d$ than 12.)	on to Euclid's algorithm. In t Enter the integer coefficient $\cdot b_3$ $\cdot b_2$ $\cdot b_1$. (This line is the	he course of the algorithm, y s that arise for the last three final output of the algorithm	you will express <i>d</i> as an inte steps. n. The last number you ente Not yet answered Mark	ter the first two remainders, b_2 and ger linear combination of each pair are discountly as the second control of the second cont
Now carry out the extension of successive remainders. If $d = b_2 + d = b_1 + d = b_0 + d = d = b_0 + d = d = d = d = d = d = d = d = d = d$	on to Euclid's algorithm. In t ${f E}$ nter the integer coefficient ${f \cdot}b_3$ ${f \cdot}b_2$ ${f \cdot}b_1.$ (This line is the ${f i},b\in{\Bbb R}$ ${f \cdot}$. You may assume ${f \cdot}$	he course of the algorithm, y s that arise for the last three final output of the algorithm	you will express <i>d</i> as an inte steps. n. The last number you ente Not yet answered Mark	ger linear combination of each pair ered should have absolute value less ed out of 10.00 Flag question
Now carry out the extension of successive remainders. If $d = b_2 + d = b_1 + d = b_0 + d$ than 12.)	on to Euclid's algorithm. In t Enter the integer coefficient $\cdot b_3$ $\cdot b_2$ $\cdot b_1$. (This line is the	he course of the algorithm, y s that arise for the last three final output of the algorithm	you will express <i>d</i> as an inte steps. n. The last number you ente Not yet answered Mark	ger linear combination of each pair ered should have absolute value less ed out of 10.00 Flag question

