AN INTRODUCTION TO THE THEORY OF NUMBERS

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by

Ivan Niven Herbert S. Zuckerman Hugh L. Montgomery

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ERRATA AND REVISIONS FOR PRINTINGS 3 AND HIGHER

PAGE/LINE

v/-15..-6 In place of the passage 'The instructor may ... subdirectory /pub/clint.' subsitute:

Instructors can obtain a set of solutions to the starred exercises by contacting the third author, whose web page also provides useful software, a manual of computational laboratories, and several supplements.

vi/11	for 'Appendixes' read 'Appendices'	
$1/12,\!13$	replace 'natural number such as' by	
	'natural number greater than 1 such as'	
1/-2	replace 'any exponent' by 'any integral exponent'	
2/5	replace 'natural numbers' by 'integers'	
3/-10, -11	replace 'is a logical consequence of the first' by	
	'is logically equivalent to the first'	
18/3	between 'of' and 'integers' insert 'two or more'.	
29/-3	replace 'numbers n ' by 'numbers $n \ge 4$ '	
	[Thanks to Art Benjamin for pointing this out.]	
56/2	Replace ' $ad - bc$ ' by ' $ad + bc$ '	
57/Exercise 14replace 'all n' by 'all $n \ge 0$ '		
88/6	replace $f'(5) = 1 \not\equiv 0 \pmod{7}$ by $f'(5) = 11 \not\equiv 0 \pmod{7}$	
	[Thanks to Peter Kahn for pointing this out.]	
102/1	The term 'quadratic residue' is defined in Definition 3.1 on page 131.	
107/4	replace $p'(a^{2n}+1)$ by $p'(a^{2^n}+1)$	
110/-2	The term 'quadratic nonresidue' is defined in Definition 3.1 on page 131.	
137/*22.	Replace $(p+1)^{1/2}$, by $p-1$,	
157/-4	Replace $ax^2 + bxy + y^2$, by $ax^2 + bxy + cy^2$,	

NZM corrections, continued

161/15	To the end of the definition append: '(When $d < 0$, we count
	/it only the positive definite forms.)'
182/1	Replace 'de Plignac's formula.' by '(Legendre)'
195/Problem	5Replace $2^{\omega(n)}$, by $2^{\omega(n)}$.
197/-8	for 'Slow' read 'Show'
207/13	Replace 'permits' by 'permutes'
237/10	Replace $((-1, 1), (0, 1), (3, 11), $ ' by $((-1, \pm 1), (0, \pm 1), (3, \pm 11)$ '
293/-20	replace 'Section 1.1' by 'Section 1.2'
	[Thanks to Harley Flanders for pointing this out.]
308/6	Replace $\sqrt[6]{5}$ by $\sqrt[3]{5}$
318	Between Corollary 6.27 and its proof, insert the following paragraph:

With a small amount of calculation one can show that 33 is not the sum of five positive perfect squares, but that every integer $n, 34 \le n \le 169$, is the sum of five positive squares. Hence the constant 169 in the corollary above can be replaced by 33, but not by any smaller number. [Thanks to P. T. Bateman for suggesting this.]

321/12 Wrong font: ' $\mathbf{b}f_1 = g$ ' should be ' $\mathbf{b}f_1 = g$ ' 356/-7 Replace ' $x_2 = y_2\sqrt{d}$ ' by ' $x_2 + y_2\sqrt{d}$ ' [Thanks to Greg Martin for pointing this out.] 448/-1 Replace ' $q^e(n) = q^o(n)$ ' by ' $q^e(n) - q^o(n)$ ' [Thanks to Greg Martin for pointing this out.]