Representations of Integers

Assignment-3

$$\frac{(-23)-17|-1}{-23|-1}$$

we found.

Ansi

To simplify , we first convent -13 into positive equivalent module 23. -13 mod 23 = -18 +23 =10 30, the equation become 3: 10x = 1 mod 23. Now, we find the integen & such that 10 N = 7 mod 23 if N=1, 10×1=10≠1 mod 23 WOW. if N=2, 10×2= 20 ≠ 1 mod 23 if N=3, 10×3 = 30 = 7 mod ·23 if n= u, lox u = u0=17 mod 23 if N=5, 10×3 = 50 = 4 mod 23 id N=61 107.6=60=. 14 mod 23 if 4=7, lox7==70 =1 modes · we found it: 10.7 = 70 = 1 mod 22 Since -13 = 10 mod 23 and 10-1 mod 23 = 7 The multiplican inverse of

The multiplicant inverse of

-13 mod 23 is 7

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