Flarega - Teoria dos números
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I. a e a+1 E Z+ + são primos entre si.
Prova: => Se a e a+1 são primos entre si, então o mde (a, a+1) = 1. Como o mde (a, a+1) = 1, pelo teorema de Bizant, exertem interes x e y lois que axe + (a+s) y=1.
Entos, podemos dizer que d'ax+(a+s)y.
5.e aa+(a+3)y=1 então d11, o mdc(a,a+1)=1
Prova 2: Suponha por absurdo que a e a+1 ∈ Z e não sejam primos entre si. Ossim a e a+1 tun um divusor carum se ≠ 1. Suponhamos tombém que K1 e K2 ∈ Z. Ossim:
a = K1.2 + a+1 = K22 = b K120+1 = K220 = b
1= K2xl - K1xl = 0 1 = (K2-K1). 2e
Ju seja, 2011. Mos uso é um absundo, pois supomos de énicio que 2 7 1.
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0

2 49331-20%37 2 4435 - 20 % 19
n
4933-37-4896 4435-19=4416
9 1 1 9 5
4896 4416 480 96
480 96 0
Ls molc (4896, 4416)
1 2 10
4933 = 51 % 37 => 4435 = 46 % 19
96
n = 96
3- K=1(mod 4). 6K+5=3 (mod 4)
Posiviers valores de K.
The state of the s
(mod 4) 1={,-7,-3,1,5,9,13,}. assim:
The second of th
K= 49+1. Se rei o raton de K, porso subs
titui-le na expressos:
244
6.(49+3)+5.=> 24K+11
10 - 11 (mod 24)
29K+JZ pode our eserito como K=JL (mod 24)
quando podrimos analisar a classe de congruencio de 12 no modulo 24.
di 12 no modulo 24.
1 - {, -37, -13, 41, 35, 59,}
지역 - 10 개선 : 10 10 10 10 10 10 10 10 10 10 10 10 10

P3DETROIL

- Ferensa	au usondo	os valores	da cla	me de
Congruencia	de 1 módu	lo 4, aplico	dos a	gormula
6K+5 06	tremos o	Is (mod 24).		
- Os valon	es são todos	valore que	perticem	a class
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(mod 4) 3 = {	,-9,-5,-1,3,7	11,15,19,	35,,5	7 7
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