py Emmand B. \$ Hoja 11 @ & on triangulo con vertice extros (a, b), (c,d), (e,8) tiene arou entra 2 ad testeb -be -de -as Preba de frianges es 2 | ab | = 1 | ad + cd + eb - bc - de - ad |
ab	= 2	ad + cd + eb - bc - de - ad
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ab	= 2	ad + cd + eb - de - ad
ab	= 2	ad + 5. on triangulo tiene vertices entros
y gren entern catanus des de sus vertices
son ignales mod 2.

Proba: Sean (a,b), (c,d), (e,s) ofor casillar dus de 29,0,03 y des or (b, d, f3 son ignales mod 2. OSPG a=c fe, b fd = 6 (En odro casos ya se compre eso fishers porque a = c, b = d & c = e, d = s.

84 Emmand B. Hoga $\frac{7}{2}$ ad $+c\delta+eb-bc-de-a\delta$ $= ad+a/\delta+eb-ab-de-ad$ = a(d-b)-e(d-b) = (d-b)(a-e)=0 = (d-b)(a-e)=0Cano 2 so prino endances $a=e \quad \delta \quad b=d$

Ennand B. Hoja 3/ @ SPG porms osumir deta CPor 10 gr probens and 2

(Por 10 gr probens ands) Carol? Ctodo es med 2) Coalgura (k,y) compre parque se exist done dete exist exist done dete exist (a,b), (c,d) 0/ 0=0, b=0, e=0, f=0 od=0, 5=0, e=0/ δ=1 -x +/1 =0 = x=1 sine En genera (xy) = (a,b) funcions q (b-b) + ab (a-a) + ab (ab = 0 = 0) a (b-d) rb (e-a) +ab-be= ab-afibe-ab+af-be =0/ a (b-f)+b(e-a)+ad-be= Lo de arriba.

gu Monand vertices que al trava papar Pxisks ds la ejes esta dentro checleres 01 del ABC (4,6) (a,b) 7 (a,f)

pu Emmed Sur 21

(a, n) (c,d) (e, 8) (arc b+d) (ate 5,8) (cre d18) si ringura es entera entera como hay dos con la mome

(contras)

(contras) (contras) esso des traen que ser derdistatos puntos, SP6 aic fe dif \$16 1 | cd | = 2 | ad + cd + eb - bc - de - ad |]

| es | pq - |
| es | pq - | = ad +ad +eb -ab -de -get = (d-b) (a-e) = 1 0 = existialym purb vido entro en 19 vediana? divides

Emmend Sie; 60 Si d creq gr redonc inducerin p | A (c,d) (e, 6) (9,4) $\frac{\left(1+q(p-1)d+b(p-1)}{2p}\right)$ randog os C=a mod p gra d=b med p ad + cf teb -bc -d @-af = 0 mod p a, E, e elstrats. Sta) 37 tudos

Enrence Bursho 3, Sun 41 P 4 consistens ws 9+2c-29=2c+a(p-2) (p-1) c + 01 axtCy can xty = p fallep. X12 >1 si gc anso nultiples or p ax =- Cy oralgura Suciona !) afo med p Tons y = 9 X=- = , y g x=c 6 ger selgs

5: PC

pr Furand B. Sec. 5) Queens dus identies mand p entre açõe ad + cf+ eb-bc-de-af = 0 (dea-e)+cl b(e-c)+d(a-e)+f(c-a)=0 (S: ninguna de las diferencies es 6 med p gr pasa? Gmplo: a=1 &=2 e=3 b-2d+&=0 n+&=2d mod 5 h=1 8:5 d=3 ad + cf + eb - be - de - af Arca 0? = 3 +10+3-2-9-5= O no . C 5=10 3+20+3-2-9-10=5 % No entra
+10 -5 (10)

Envenil Seis 61 00 10 (3,15) brd 2 (e,8) (a, h)

Envened Suso 81 n=a y=f a (b-f)+ f(e-a) +af-be = ab-ad+ ef-gf+gf-be =(q-e)(b-f) 5 h=f a = f = on dotinho b = c = 1Y(1)+y(1)+0-1 (X ty = 1) (x = e y = f) c (b-f) +. f(e-a) + 4 f-bc = ex-ex+ex-ax+qld-be/=0 (xy)= (e,s)

8-10 81 B. Enverse PN I gampe esta 9=0 e=1 (xoy per) enturces dividing 5-1 et triangulo con use P=(x,x) e = 0 8=0 x - y = 0 $\Rightarrow (x = y)$ e inductivement a cabanas :) a = 1 5 = 1 J + 1 = 0 (XEI) alguin,

Seio (0) (e+1, 8+1)? (e+1)(b-4) + (++1) (e-a) +98-be elo-estb-d + elo-xd+e-a + elo-bk Si hay k puts dets (40) (41) arc = aOr c = Qa med 4