3-2-25

:10:31) . p.n/c a.b, m 1:11 1 1:231 -a=6 mod m Sk a%m=6%m 5 k

- r = a % m = 6 % m - r = a % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m = 6 % m - r = a % m - r = a % m = 6 % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m - r = a % m

 $\Gamma = \alpha - 2, m \qquad \Gamma = 6 - 2.m$

: b:1.1.5 1,1167

 $\begin{array}{l} a - q_{1} m = 6 - q_{2} m \\ \implies \qquad a = 6 - q_{2} m + q_{1} m \\ \\ a = 6 + (q_{1} - q_{2}) m_{1} \end{array}$

 $a = \mathcal{Q}m + b$ $e \neq 0$ f = q, -q = 0 $\Rightarrow 0$ $\Rightarrow 0$

= 2 8.520

:10011) .p"JIEK7 a.6 ('i) '

 $\phi(a) = a - 1$

```
((,)) (h(a) 19.110 V.3.119")
   (2) - \phi(a) = (p_i^{e_i} - p_i^{e_{i-1}}) - \cdots - (p_k^{e_k} - p_k^{e_{ik-1}})
   a-e mis ne a-e pusières d'isso y : 3001 y
               1-1617 (116K) 290N IN 3 X
          a = a^{1}.
                                  g . 99 (1 = g
           \psi(\alpha) = \alpha' - \alpha'' = \alpha - 1.
    :11,011) P.,1616151 D.Mge arp 1,9. : 7.927
                · $(ab) = (a-1)(6-1)
8.1161622 (10.01) 22 Douniero a-p 112 VS
        fe ) pa, veriour, painier alte:
       $ (ab) = (a'-a' -')(b'-6' -')
                = (a' - a') (b' - b').
                = (a - 1)(b - 1)
       . <del>d.716</del> l.,716 κ 2 l. 290 N α-P
            \phi(a^{k}b^{n}) = (a^{k} - a^{k-1})(b^{n} - b^{n-1})
      [()'O) pos possion sons as
        a^{k}b^{\prime}=a^{k}b^{\prime}.
```

و د ا د د د د د ما الحدى $\phi(a^{k}b^{n})=(a^{k}-a^{k-1})(b^{n}-b^{n-1})$:11017. p. NJE a-6.1 ('i)': 1271 : p·N"; NN p·16 211 p · 16 1 N1) p 16 2 6/1 (3) . abln 311 n = bt. t g de = 1 ("3 6 | n .gcd(a.b)=7 = p.75 a.b · V.7111 1.23 - n = abg - e >N/12, ab n jede g reks $\lambda = 6t - 1 \quad \Lambda = as \quad -e \quad | \Lambda | \frac{1}{1} \left(\frac{1}{1} \right) \left(\frac{1}{1} \right) \left(\frac{1}{1} \right)$ () 11. 6 . 1. 16. 9. (*) -- 1 6 t = as . 6 as 10 "S b/5/05/6/a //06/gcd(a_6)=1:/1000 €, (*). . ple k seis = 6k (/3d </> .ab/n / > \$. n=as =abh

gcd (ma, mb) = mgcd (a.6) (316 m 16 -1 m 12 -1 , m>0 fic (2 $g c d \left(\frac{a}{m}, \frac{b}{m}\right) = \frac{g c d (a - b)}{m}$ J. 29 D. 290N 6 -1 a gcd (a.b) . e/a 5× 6-8 00° > 75 e-1 e/ab 5° (3 ٥٨ ٢١١٠ ٠٠ · gcd(ma, mb)=mgcd (a-6) 11186 (10 (07'S; (10 CDEN 'DS . g(d(a-b)=d / ~0) : e 73 S.E 5-N/0 3 Sa + Eb = d=> m(sa + tb) = md => sma + tmb = md $\Rightarrow 5(ma) + E(mb) = (md)$ 1.N, 1) b3 > 6961) 50 1, 29. 4 LI, COCN ,09 ' \20 (Mb-1 ma p.v.101) le gel -1 ((1,) gcd (ma, mb) = md = mgcd (a-6) . J'en

2) 9 RFU: 210 =1m 1- 91m 510 M>0-1 $g \in d\left(\frac{a}{m}, \frac{b}{m}\right) = \frac{g \in d\left(a - b\right)}{m}$ ·. ·) U7 11) 80, NOPO 211.607 E DIN. S F RZILS 1=gcd (a.4) ged 1)) NIds (d=ged (a-6) e 886 > - d to 81c (p.Nde se 8 [[]] sev / |] m / a 1'N' 731) Naj SuNO 731) NIC $(\#) \quad \frac{Sa}{m} + \underline{Lb} = \underline{al}$ $pfe = \frac{\alpha}{m} \iff m/\alpha$ -910 6 m 16 · De = (1, N, 531) (1) $S\left(\frac{a}{m}\right) + \pm \left(\frac{6}{m}\right) = \frac{d}{m} = g(d(a-6))$ 507.8:110 CJGN 108 (/ 5 5 $gcd\left(\frac{a}{m} - \frac{6}{m}\right) = gcd\left(a-6\right)$