Ka Duney) osnoraba. < n (\le h) u Dip. C ((n) (* greicique
eccesterine
pre sport ou cucno Growing opoch c n 1,4.8,4.5,6 Tup- ((6) 1, 2, 3, 4, 5 e(6) = 2Te p- Types $1/ \ell(p) = p-1$ $2/4(p^{d}) = p^{d} - p^{d-1} = p^{d-1}(p-1) = p^{d}(1-\frac{1}{p})$ $3a \quad d \geq 2 \quad (G. \quad a \quad d = 1)$

De 2) (a,p) +1 => (a,p) +1 (=> (a,p)=+1 (=> p/a (1=(aph)=) 1=pt, p=1; p>0 =>p/p/a/ 0 = {1,2, -px) ~ (a,px) + 1 (=) 0 = pk k = {1,2, -px} Tern, a" com pd. 1 (m Span; H com pd.)
=) ((pd) -- pd- pd.) G_{n} . $|Z_{n}^{*}| = \varphi(n)$, n D-C $|Z_{n}^{*}| = \sqrt{|Z_{n}|^{2}} =$ fort: Aus Ge your, g t-G u /G/= n, To gn=eg =740 E /n = 7

Teapenen en Dinep: Ha EU: (a, n/=1=1 =) a = 1/maln) Gr. (Tropen un pegar) tp-poero atta: pxa =) d=1(p) Sn. (Jeguaz) & p. sporo u & a a = a (and p) DA M: IN SEEC, N=P, -- PK (p:-pm., L:21) $M(n) = \begin{cases} 1 & n = 1 \\ 0 & \exists k \ge 2 \end{cases} (k = 0)$ $(-1)^{k} \qquad \forall k = 1 \qquad (n = ch \ge 2n) = 1$, 3 t = 2 (Pi/n) Hz = 1 (n e clooque à port) & yeary 100 Meoduge

Diff &: N > a e segniverpurcon orco tra, b < 1N: (a, b)=1 =) f(ab)=f(a).f(b) 3u5. n=pt -- pt ~ ~ f - myri =1 f(n) = f(p, 4). f(p2) - - f(px) Brown: f: N - 6; F(h):= \(\) 18.2 MGH = 51 /n=1 10 /n>0

TC.1 pr - argnimin.

Te
$$Z(d) = n$$
 $Z(d) = n$
 Z

But. My co knowle e PE(mys!) GA! $\frac{\sigma}{n} \sim \frac{b}{n} \stackrel{\text{def}}{\text{def}} (\alpha, n) = (b, n)$ $\frac{\sigma}{n} = \frac{\sigma/(\sigma n)}{n/\sigma, n} \stackrel{(\alpha, n)}{\text{def}} = \frac{\sigma}{n} \stackrel{\text{def}}{\text{def}}$ $A = 0 \stackrel{\text{def}}{\text{def}} = \frac{\sigma/(\sigma n)}{n} = \frac{\sigma}{n} \stackrel{\text{def}}{\text{def}} = \frac{\sigma}{n} \stackrel{\text{def}}{\text{def$ responsationer (+ a, b \$ (ab) = ab = \$ (a) \$ (b) Tb. Anco & myrs., To F (1) = [f(1) conjo e rugni.

2 0 d = 2 2 0 d, d2 d/006 d, (a d2/6 3 . (a, 5) = 1 4 d 1 d 10-5 /2003 (d, de) (s, la, de 16) $d \longrightarrow ((d, \sigma), \frac{d}{(d, \alpha)}) \frac{d}{(d, \alpha)} / b \leftarrow$ $\frac{3-c_{0}}{F(ab)} = \sum_{k=1}^{\infty} \frac{1}{k!} \frac{1}{$ $= \sum_{\delta,1/\sigma} \{(\delta_1) \left[\sum_{\delta 1/\delta} \{(\delta_1) \right] - F(\delta) \right] = F(\delta) \cdot \sum_{\delta 1/\delta} \{(\delta_1) - F(\delta) \} = F(\delta)$

(n. 1)
$$M - \mu \nu \rho n \bar{r}$$
.
 $2/2 = 1$, $1 - 1 \nu \rho$. $-1 M(\rho^2) = \Sigma \mu(\beta) = \Sigma \mu(\rho^2) = 0$
 $= \mu(1) + \mu(\rho) + \mu(\rho^2) + - = 0$
 $= \mu(1) + \mu(\rho) + \mu(\rho^2) + - = 0$
3) $M(n) = \begin{cases} 1 & n = 1 \\ 0 & n = 0 \end{cases}$
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$$\frac{305}{4.1n} \left(\frac{1}{4.1h} \alpha(A_1, A_2) \right) = \frac{1}{4.1n} \left(\frac{1}{4.2} \alpha(KB_2, A_2) \right)$$

$$\left(\frac{4}{2} A_1 / n \left(\frac{1}{4.2} KA_2 \right) KA_2 / n - K / \frac{n}{4.2} \right)$$

$$\left(\frac{4}{2} A_1 / n \left(\frac{1}{4.2} KA_2 \right) / KA_2 / n - K / \frac{n}{4.2} \right)$$

$$\frac{1}{4} \left(\frac{4}{4.2} A_2 \right) \left(\frac{1}{4.2} / n \right) \left(\frac{1}{4.2} A_2 \right) \left(\frac{1}{$$

Te.
$$f: N \to G$$
; $F(n): = \sum_{s,l} f(d)$
 $F \to myni$. $\Rightarrow f \to myni$. $(\frac{\lambda_{l}}{\lambda_{l}}) = l; (d, d) = l$
 $\frac{\partial_{l} - e_{o}}{\partial_{l}} (a, b) = 1$
 $\frac{\partial_{l} - e_{o}}{\partial_{l}} (a, b) = \sum_{s,l} \sum_{s,l} \mu(\frac{a_{s}}{a_{s}}) F(d_{l} d_{l}) = l$
 $\frac{\partial_{l} - e_{o}}{\partial_{l}} (a, b) = \sum_{s,l} \mu(\frac{a_{s}}{a_{s}}) F(d_{l} d_{l}) = l$
 $\frac{\partial_{l} - e_{o}}{\partial_{l}} (a, b) = \sum_{s,l} \mu(\frac{a_{s}}{a_{s}}) F(d_{l}) F(d_{l}) F(d_{l}) = l$
 $\frac{\partial_{l} - e_{o}}{\partial_{l}} (a, b) = \sum_{s,l} \mu(\frac{a_{s}}{a_{s}}) F(d_{l}) F(d_{l}) F(d_{l}) = l$
 $\frac{\partial_{l} - e_{o}}{\partial_{l}} (a, b) F(d_{l}) F(d_{l})$

Cn. f: N-1 a, F(n)= [f(s), Trelen f-augus. En F-augus. Cn. 119 e organi. (pe mynr.) $4/n = p_{i}^{4} - p_{i}^{4} > 1 = 1$ $4(n) = 4(p_{i}^{4}) - - 4(p_{i}^{4}) = p_{i}^{4} - p_{i}^{4} (p_{i}^{-1}) - - (p_{i}^{-1}) = 1$ $= n \left(1 - \frac{1}{p_i} \right) - \left(1 - \frac{1}{p_k} \right)$ "Tipour" gon. in Teop. in Dines a Jepan

Off. 1/ of, an on there outsers or they, orco 11 Zn= } an / 2) on, an en TCO, onco titj oztaj (n) 3/ am agin - peggympon ancien ochvage, Il ous Zn = 5 to 1 - 5 to 19 4) an ouin ca 100, ares Hitj or Fog. (n) 3us, 1/ mm an - TCO m a EL => Fliction
3us, 1/ mm an - TCO m a EL => Fliction a zaz (n) 2) an ara, -PCO u a C-U, (an 1=1=) 5! i=1-n: a=0;(n/

3. 3 TCO~ PCO 15, ny {K|KE\1, NY, (K, n/=17) D-Go ou Teop. In Diney: Here (a,n/=1 ~ a, noe(n) e 1/0 Torolon 30 bc=aai 30 i=1, 16n/ b1 = be(n) comp e P(0 • Aus bi= bj (n/ =1 orai = aaj (n/=1 or3aj =) i=j · (a, n)=(ai, n/=1 -1 (aai, n/=1

 $f_{1} = \int_{\mathbb{R}^{n}} \frac{f(n)}{h} \frac{f(n)}{h}$ Tremorden & 5: 500 (i $b_{1}b_{2} - b_{e(n)} = a_{j_{1}}a_{j_{2}} - a_{j_{e(n)}} = a_{1} - a_{e(n)}$ (and $a_{1} - a_{e(n)}$) $a_{1} - a_{1} - a_{1}$ $a_{1} - a_{1}$ $a_{2} - a_{2}$ $a_{1} - a_{2}$ $a_{2} - a_{2}$ $a_{1} - a_{2}$ $a_{2} - a_$ =) $a^{q(n)} = 1 (ad n)$

Don. Im Jepan Te p-moro u 1=k=p-1=)p/(k) $2-e_{k}$ $\binom{p}{k} = \frac{1}{k} \binom{p-1}{k-1}$, $k \binom{p}{k} = p \binom{p-1}{k-1}$ $= |P| / K \binom{P}{K} \stackrel{(K,I)=1}{=} P \binom{P}{K}$ TG. p-wp. =) (a+b) = a + \(\begin{array}{c} \begin{array En-p-D. (a, + -- + ox/P = a, + -- + de (mady)

Con. (Teg. pegoro) It a a = o/ mud p/30 p-1/our $= 2\left(\frac{1}{2} + \frac{1}{2}\right)P = \frac{1}{2} + \frac{1}{2}P = 0 = 1 = 20$ Duston of ywoln.

ox +by = c; 3 aven a, b, c El; Tyann x, y El Rossino grafordo spola. « a 2 spon. 16. ax + by= c una per. (a, 6)/ C (3) Henr 20, 9, EK cupe 21 (= a, Ko+b. yo =1 (a,b)/c

(=) Ken (a, 6// C Eng = 1 fa, V: ua + Vb = (a, b) . (a, b) a \(\frac{a}{(a,6)} + \lambda \frac{v(c)}{(a,6)} = C =1 $\left(\frac{\alpha c}{(\alpha, 6)}, \frac{CC}{(\alpha, 6)}\right)$ e per. T6. Herra (a, 5)/C a (xo, yo) e per. 100 ax + by = c Trul Hpm. con b(x0+ 5/25) t, go- (a,6) t) (t∈ 2 5 Ken (x, y,) e per.

=
$$a \times x_1 + hy = a \times x_2 + by = C$$

 $a (x_1 - x_2) = b (y_2 - y_1)$
= $b (b (x_1 - x_2) = 1 (a_1 b) / x_1 - x_2$
= $3t : x_1 - x_2 = \frac{b}{(a_1 b)} t = 1 x_1 - x_2 + \frac{b}{(a_1 b)} t$
 $a = \frac{b}{(a_1 b)} t = b (y_2 - y_1) = 1 y_1 = y_2 - \frac{a}{(a_1 b)} t$
Acros e, re $b = \frac{b}{(a_1 b)} t + \frac{b}{(a_1 b)} t + \frac{b}{(a_1 b)} t + \frac{b}{(a_1 b)} t$