名文次邓世解者. 着回義。2. 種、切: f(x)= tgを、f'(x)= でかって f'(x)も でかって、f'(x)も、 65/2+2002 if(0) = 0. f'(0) = 1 f''(0) = 0 f''(0) = 2. i tyz= 0+ 2+ 0+2= = + + = 2+ + 23+ ... 由于最近的看互为 Z=+3. · R=3 : tgz= Z+ = z3+ ... |2| < x. $\frac{1}{100} \int_{0}^{10} \frac{1}{100} \frac{$ R= lim nJan = + 10. $3, \overline{(2+1)(2+2)} = \frac{2}{2+2} - \frac{1}{2+1}$ = 2· 1+ == 2 - 3· 1+ == 2 $= \frac{1}{2} \frac{f^{*}}{5} (-1)^{n} (\frac{2}{2} - \frac{1}{2})^{n} - \frac{1}{3} \frac{f^{*}}{5} (-1)^{n} (\frac{2}{3} - \frac{1}{3})^{n}$ $= \sum_{n=0}^{+\infty} (-1)^n \left[\frac{1}{2^{n+1}} - \frac{1}{2^{n+1}} \right] \left[2^{-2} \right]^n.$ R= lim | Am | = lim 2n+1 = 3 10. 4-12 = 1-312-1-1)-3-31 - 1-31 1- 2-17 $=\frac{1}{1-31}\cdot\sum_{n=0}^{+\infty}\frac{(2-1/+i))^n}{(\frac{1-31}{2})^n}=\sum_{n=0}^{+\infty}\frac{3^n}{(1-3i)^{n+1}}\cdot\left(2-(1+i)\right)^n$ R= dim | An | - dim | 3 | 1+9 = 100

6. 782 ibright 2) 1-20 100 == 0 0 0 - 12 (2-2) $=\frac{1}{1}\cdot\frac{a2-\frac{6}{8}}{(1-a8)(1-\frac{9}{8})}$ $=\frac{1}{2i}\left[\frac{Az-1+1-\frac{A}{z}}{(1-az)(1-\frac{A}{z})}\right]$ $=\frac{1}{2i}\left[\frac{-1}{1-\frac{1}{2}}+\frac{1}{1-\alpha z}\right]=\frac{1}{2i}\left[\frac{t^{*}}{-\sum_{n=0}^{+}(\frac{1}{2})^{n}}+\frac{t^{*}}{n=0}(\alpha z)^{n}\right]$ $=\frac{1}{\lambda^{2}}\sum_{n=0}^{\infty}A^{n}\cdot\left[-\left(\frac{1}{2}\right)^{n}+\left(2\right)^{n}\right]=\frac{1}{\lambda^{2}}\cdot\sum_{n=0}^{\infty}A^{n}\cdot2i\cdot\sin n\theta=\sum_{n=0}^{\infty}A^{n}\sin n\theta$ 13) In (1-201030+ a2) == eio (1-a2) (1-a. =) = In (1-az) + In (1- 4) $=-\frac{t\nu}{n}\frac{1}{n}(02)^{n}-\frac{t\nu}{2}\frac{1}{n}(\frac{a}{2})^{n}$ = - = An [2h+ =] = -2 = An M n B 八1671(€ 017) 一得记、四) ヌン (ヨー) = 世 (ヨー) = 1ヨー = 1ヨー (ヨー) - 1ヨー = 121. E. T. (21n-1) = 121 - 2 | 2 | " = 12 | . 6 |2 | · 6151 = 131·613 经水, (本本)

引起:11) 由题; 18)= (2-20) [fm(3) [18)= (2-20) [1/16] ~ f(8) g(8)= (2-20) fm(2) gn (2) 由于 fm(元)+0. fn(元)+0 = fm(元). fn(元)+0 · 元是 fra) g(B) in [m+1)级客五。 10. (F3) = 1. 5 2k = 5th 2h (2) ze = z. = 1. z-n $= \frac{t_0}{t_0} \frac{1}{n!} \frac{2^{-n+2}}{2^{-n+2}} = \frac{2}{2^{-n}} \frac{2^{n}}{(2-n)!}$ _ / (12) - (2a)(2-b) N) 0 < | 8 < 1 a | 2; (18)= (2-b-2-a) b-a =[1-=(-b)-1-=·(-h)]b-a = [-1 \(\frac{1}{5} \left(\frac{2}{5}\right)^n + \frac{1}{5} \left(\frac{2}{5}\right)^n \right) \\ \frac{1}{5-a} $= \frac{1}{b-a} \frac{+b^{\alpha}}{\sum_{n \geq 0} \left(\frac{1}{a^{n+1}} - \frac{1}{b^{n+1}}\right) \cdot z^{n}}$ 12) 19142141: f(2) = 1 (= - = = b) = 1-2 (-6)) = 1 (=) · = + = (=) · b] = 1 [] And + 2 bn+1] - 故[紫雪十点影]

13) 16) < 13) K+10; fix) fo. a-b (= a - B-b) - 4- [-4. 2 - 1-2. 2] = 6-b [has 2nt] - 50 b"] = 1 5 An-1 - bn-1 = = = 1-80 0-6 = - 1 . 1 . \(\frac{z-a}{1-a} \)^n $= - \frac{100}{2} \frac{(z-a)^{n-1}}{(b-a)^{n+1}}$ $= -\frac{+\omega}{\sum_{h=-1}^{+\omega} \frac{(2-A)^{h}}{(b-a)^{h+2}}}$ = 2-9 1- 1- 2-9 = 1 = 1 ban = ± (b-0)" $=\frac{-1}{2}\frac{(2-A)^n}{(1-4)^{n+2}}$ (6) 0<12-6|-(a-6): f12)= 2-6. 2-6-(a-6) = 2-6-1-26.6-4 $z - \sum_{n=1}^{+\infty} \frac{(2-b)^{n+1}}{(a-b)^{n+1}} = -\sum_{n=1}^{+\infty} \frac{(2-b)^n}{(a-b)^{n+2}}$

(7) 1a-b| < 12-b| < +0 b. 12)= 2-b 2-b-(a-b)Date. -= 1 - 1 - 2 - 1 12-1) htz = = 10 (2-b) n+2 心解:1)不妨没a= a.. 则有: ① 老 n. 为 可去有 5, M fr3)= = Cn. (2-a.) 12-a.1< r. 田名(大m級松上、州 f73)= と Cn (z-ui). C-m +0. b</2-ailer. 图卷a,为本代别至.别fiz)= 是a(z-a), C-n有无好力(n>), K=al METOr = min { | a1-a2 |, | a1-a3 | } (2) \$18)= = an (z-a)". R=min { |a-a1 |, |a-a2 |, |a-a3 |} 13. (n=0,±1, …) 13. (n=0,±1, …) ラー (m,2) = -sin = (-1) n+1 + 0 The same of i、アンInti)なヤカカレのえでの一般なる ·· 是(nti)双为山产的一级极道。 16) fix)= 202-1 2-1=0=) 2=1 (k=0,±1,…) (b) (imfa)= (な) f(2)= 00) (im f(3) 不存在 271 f(2)= 0 21 fiz)= 20年 = 2027 = 2000 : 2000 阿克克鱼

7' (Dze et) = (z·e = 1) - (e = 1)·(e = 1)·(e = 2) = (z-1)·e = 2) 成分2km(k= ±1, ±2~m) はかれる。 ·、2KNi(K=±1,±2,···)为fiz)的一级极点。 $\frac{19)}{2^{n}} = \frac{1-\omega^{2}}{z^{n}} = \frac{z^{n}}{z^{n}} + \frac{1}{z^{n}} = \frac{z^{n}}{z^{n}} + \frac{1}{z$ 小苕n>2,别0为n-2级极色、 苕nez.则。为可括点.