B. lim fox= 1 40>0 3× HINI>X |fw-11< € 冬+=六,x→0即→00, 秋近X,一定2X,当以<X时, limf(方)= limf(t) 1t1>X,故 | f(t)-1/22 故如何文 当水→+如时,特 +1×1>× 设为 +×>× メーラーの时, 特日N7X 改为 サ x <-X 9. (1) lim tan2x = lim 2x = 2 X70 Sin5x 270 5x = 5 (2) 60357 = 052X057 - 8in 2754 X =(2005x-1) (009x-2502x (05x = 265x-65x-265x+265x = 4 cosx - 3 cosx (1) 元分小有界 - 元分小 fin adam) = 0 —(2) 元多小有界=元劳小 等的产品 (3) $\lim_{x \to 2} \frac{x^3 - 2x^2}{x - 2} = \lim_{x \to 2} x^2 = 4$ (4) lim 2x-X+1 = +00 (2) YM70 78= am 40<x<8. 109ax <-M (3) AM>0 3 8= = adomM, \$ = -8 < x < \frac{1}{2} tanx > M (4) Amy 38= In 70< x<8 e3 > M 12. On=2n元·2 y=2h元·3 故 M元界 y=0 h→+四时,y并不是元劳大量 bn=2nR

13. 1= 1 te(1,+ w) 4=2杯1会 y=0. 不是元务大量 ス域 x → + ~ , C:f(x) y=ax+b $|f(x)-(ax+b)|=k|MN| = k|MN| = \lim_{x\to +\infty} (f(x)-(ax+b))=0$ 1° 3b=0, Q= lim +(x) = lim (f(x)-ax) (持分10.20 大0 Q= lim +1x) b= lim (f(x)-ax) 6 a= ling +(x) b= ling (f(x)-ax) The lim (f(x)-(ax+b)) = lim 0=0. $(1) y = \pi \ln(e + \frac{1}{3})$ a=lim ln(e+x)= | \$\overline{x} a=lim ln(e+x)=| iz y=ax+b $b = \lim_{x \to +\infty} \left(\chi \ln \left(e + \frac{1}{\lambda} \right) - \chi \right) = 0$ $2 \lim_{x \to +\infty} \left(\chi \ln \left(e + \frac{1}{\lambda} \right) - \chi \right) = 0$ 超 y=x 为断进送 a=lim 3x-2+x=3 x 0=lim 3x-2+x=3 (2) $y = \frac{3x^2-2X+3}{x-1}$ b= lim 37-2x+3 3x = lim 7x+3 = 1 b= (m X+3 =) 故 9=3/1+1 为其惭进民

(1) lim 2(x) = lim 2(x). \(\frac{\partial(x)}{\partial(x)} = \lim 2(x) (2) $\lim_{x \to \infty} \frac{\partial(x)}{\partial x} = \lim_{x \to \infty} \frac{\partial(x$ (3) $\lim_{\lambda \to \infty} \frac{\partial x}{\partial x} = \lim_{\lambda \to \infty} \frac{\partial x}{\partial x} =$ $\lim_{x \to 0} \frac{\tan x - \sin x}{x^3} = \lim_{x \to 0} \frac{\tan x (1 - \cos x)}{x^3} = \lim_{x \to 0} \frac{1 - \cos x}{x^2} = \overline{z}$ $\frac{(2) \lim_{x \to 0} \frac{x^2 + x^2}{\sin^2 x} = \lim_{x \to 0} \frac{x^2 + x^2}{x^2} = \lim_{x \to 0} \frac{x^2 + x^2}{x^2$ (3) lim 1-005X = lim 25/10 = 1 10 31 (1) $\lim_{X \to +\infty} \frac{\int_{n}^{n}(x)}{\int_{m}(x)} = \frac{\sqrt{n}}{\sqrt{m}} = \sqrt{n-m}$ (3) lim - ax = (a) x (1) $\lim_{x\to 0} \frac{\sin x}{\sin nx} = \frac{mx}{nx} = \frac{m}{h}$ (2) $\lim_{x\to 0} \frac{\cos x}{x} = 0$ (3) lim V + sinx - | = lim | + sinx | = lim narctoux = 1 $\frac{(4) \lim_{x \to 0} \sqrt{2-\sqrt{1+66x}}}{\sin^2 x} = \lim_{x \to 0} \frac{\frac{3}{2} - (1+\frac{1}{2}(\cos x))}{\chi^2} = \lim_{x \to 0} \frac{\frac{1}{2}(1-\cos x)}{\chi^2} = \frac{1}{4}$ (5) lim 1+x+x-1 = lim 2x+2x = 7