几下数日。 1. (5) 末根限 (m (HX) = e lim ele thutx)-1 一种. X>0 (D) Von Ln(HX) Incress - 2 = Van + 2 -1 = 0 tol原和BB= lim e·(文InCHX)-1) m(Hx)-x 1 - 5 x - 5 x - 5 x = - = e lim = -50 2. (7) Van (2-x) tan 2x = 1 m P tan > x ln (a-x) 100-

Joj lim tan xx = Van set 2x x X->| (x-6) (2-x) 12 (2-x)  $\frac{2}{2} \frac{(2-x) \ln^2(2-x)}{2}$  $= 1 \text{ fm} \quad \frac{2}{7}, \quad \frac{4}{7} = \frac{2}{7}$ 油的原格限二色节 Vm (esinx +sinx) 5ina - (e tanx +tanx) tanx  $For X = S = X - \frac{x^3}{6} + 0(x^3)$   $+ \cos X = t = X + \frac{1}{3}x^3 + o(x^3)$  $(e^{s}+S)^{\frac{1}{s}}-(e^{t}+t)^{\frac{1}{t}}$ = = th(et+t) ( = th(es+s)-th(et+t) -1) the letter) = 2 t= tanx X>0 P1. esm(es+s)- +m(et+t) - ~ 5m(es+s)- +m(et+t) 下明将 = ln(es+5) 进行Taylor展中

$$= \frac{1}{5} \ln \left( |+25 + \frac{5^{2}}{2} + \cos(\frac{5}{2}) \right)$$

$$= \frac{1}{6} \left( 25 + \frac{5^{2}}{2} - \frac{1}{2} (25 + \frac{5^{2}}{2})^{2} + o(\frac{5}{2}) \right)$$

$$= 2 - \frac{3}{5} + o(\frac{5}{2})$$

$$= \frac{3}{5} + o(\frac{5}{2}) + o(\frac{5}{2}) + o(\frac{5}{2})$$

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