laem6 3 73.20 11m (1 - 1) = (10) (SINX-X) = [0] = (10) (SINK-X)' = = 1101 cos x-1 = [0] = 1101 - sinx = 0 = 0 = 0 |Im x/e-1)= 11m e +1 = 10 J = 11m (0-1)' = = 11m e'x - fc) = 11m e'x = e = 1 /im (1 / 1) = /im (1-x3)(1-x2) /im x2-x2 = x-21 (1-x3)(1-x2) = = [%] = /1m 3x2-2x = /m 3x2-2x = $= \lim_{x \to 1} \frac{3x^2 \cdot 2x}{5x^4 - 3x^2 \cdot 2x} = \xi_0 = \infty$ 11m x + 9x //m/n(x 19 1) = //m +gx /n + = //m /nt = [=] = - 1, m1: (-1 -1)= 1, m 1 . sim3x 1, m sin3x = [0]= +->0 x: (+g3x cos3x) +->0 x -1 = 1m 251nx cosx = 11m sin2x = 0 = 11m y = 1 x-50 -1 x > 0 -1 7.3.25. /m (cos 21) 1/x /Im In(a) 2x 1/x2) - /Im 1/2 /n cos2x - /Im /n cos2x = [0] = x >0 = /Im (In cos2x) = /Im -2 sin2x - /Im /92x = [0] = x >0 = /20 (x1) = 2 x cos2x - 1-70 = 1 = /1m -2 = -2 => /1mq=e2

 $\frac{1}{\sqrt{x^{2}}} = \frac{1}{\sqrt{x^{2}}} = \frac{1$ Pxx = 60 x 2-72x, P"(2) = 96 P(4) = 120x-72, P(4) = 168. Pf = 120, P(2)=120 P(0) = 120=0, \$16/6201=0 $P(x) = 0 + \frac{3}{1!} (x-2) + \frac{16}{2!} (x-2)^2 + \frac{34}{3!} (x-2)^3 + \frac{166}{4!} (x-2)^4 + \frac{120}{5!} (x-2)^4 + \frac{16}{5!} (x-2$ $(x-2)^5 = -3(x-2)+8(x-2)^2+16(x-2)^3+7(x-2)^4+(x-2)^5$

 $f(x) = 2^{x}, x_{0} = \log_{2} 3$ $f(\log_{3}) = 2^{\log_{3} 3} = 3$ $f(\log_{3}) = 2^{\log_{3} 3} = 3 \ln_{2} 3$ $f'(\log_{2} 3) = 2^{\log_{2} 3} \ln_{2} = 3 \ln_{2} 3$ $f'''(\log_{2} 3) = \ln^{2} 2 \cdot 2^{2} = \ln^{2} 2 \cdot 2^{2}$ $f'''(\log_{2} 3) = \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ $f'''(\log_{2} 3) = \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ $f'''(\log_{2} 3) = \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ $f'''(\log_{2} 3) = \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ $f'''(\log_{2} 3) = \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ $f'''(\log_{2} 3) = 3 \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ $f'''(\log_{2} 3) = 3 \ln^{2} 2 \cdot 2^{2} = 3 \ln^{2} 2$ fxxx = (1n22.21) = 1n22(21)=1n32.21 f(x)=3+3ln-2(x-log 3)+3ln2 (x-log 3)2+3/n2 3! $(x-log_2 3)^2 + ... + 3ln2 [x-log_2 3)^h + o(x-log_2 3)^h$ 7.334. $(x) = e^{2+x} + \frac{3ln2}{h!} [x-log_2 3)^h$ f(x0)=e2-0=e3 $f'_{x} = e^{2-x}$ $f''_{0} = -e^{2}$ $f'(e) = -e^2$ $f'(u) = e^2 - x$ $f'' = e^2 - x$ $f''(u) = e^2$ $\begin{cases} \frac{1}{10} = e^{2} \\ \frac{1}{10} = e^{2} \\ \frac{1}{10} = -e^{2} \\ \frac{1}$

7.335. f(x) = avcsin x, K = 3 $f(x_0) = avcsin 0 = 0$ $f'_1 = (avcsin x)' = 1$ $f'_{10} = 1$ $f''_{10} = 0$ $f(x) = 0 + \pi x + \frac{0}{2!} x^{2} + \frac{1}{3!} x^{3} + \alpha x^{3} = x + \frac{x^{3}}{6} + 0 + \frac{1}{6}$