2 lim (-sin 2x . f) - lim f + 3200 $\frac{2 \lim_{x\to 0} \left(\frac{4}{x} \sin\left(-\frac{2}{x}\right)\right)}{x} \cdot \frac{1}{\cos 2x} = \frac{1}{7} \cdot \frac{1}{7$ lim ln ((evs 2x) x2) 2 -2 2> $\geq 1 \lim_{x \to 0} (\cos 2x)^{\frac{1}{x^2}} = e^{-2}$ W7. 3. 26

lim (1)x² z [∞] z lim ln ((1)x²)²
x→0 (x)x² $\frac{1}{x^{2}} \lim_{x \to 0} x^{2} \ln \frac{1}{x} = [0.\infty]^{2}$ 2 Lim 1 2 [00] 2 x 20 x2 $\frac{2 \lim_{x\to 0} \left(\ln \frac{1}{x}\right)^{2}}{\left(\frac{1}{x^{2}}\right)^{3}} \frac{1}{x^{2}} \frac{1}{x^{2}} \frac{1}{x^{2}}$ 2 (im 4 × 2 20 2> 2> lim ln((-1)x2) 202> x30 2> lim (x) x2 21

W7, 3, 27 lim x 1+ lnx z [0] 2 2 lim (lnx) lim x z llmy 1 x+>0 (1+lnx) x+0 x lim x +lnx z e x+>0 x lim x +lnx z e Pop-sor Terrespa: f(x)=f(xo) + f'(xo) (x-xo)+ + f(n) (xo) (x-xo)" w7.3.29 P(x)=x3+4x2-6x-8, x0=-1 $P(x)^{2}P(-1) + \frac{P(-1)}{(x+1)}(x+1) + \frac{P^{2}(-1)}{2!}(x+1)^{2} +$ $+\frac{P''(-1)}{21}(x+1)^3+O((x+1)^3)$ P(-1) 2 (-1)3 + 4. (-1)2 - 6. (-1) - 8 2 2-1+4+6-821