Actraxanger Poman (4614/ Bapaant 4 $\lim_{x \to 1} \frac{\sin \ln(3x-2)}{\sqrt{2x-1}} = \frac{1}{\sqrt{2}} = \lim_{x \to 1} \frac{3(x-1) + o(x-1)}{\frac{1}{2}(x-1) + o(x-1)} = \lim_{x \to 1} \frac{3 + o(x)}{\frac{1}{2} + o(x)} = 6$ $f(x) = \sin \ln (3x - 2)$ g(x)= 52x-1 - 5x $f(x) = \cos (n(3x-2) \cdot \frac{3}{3x-2})$ $g'(x) = \frac{2}{2\sqrt{2x-1}} - \frac{1}{2\sqrt{x}}$ $f(x_0) = f(1) = 0$ $g(x_0) = 0$ $g'(x_0) = \frac{1}{2}$ $f'(x_o) = 3$ $g(x) = \frac{1}{2}(x-1) + O(x-1), x \rightarrow 1.$ • f(x) = 3-(x-1)+0(x-1), + >1 Nº 2. y=5x 4 y=2-5x y = 5x - 1x Hau gen Torna repecerence; TX = 2-J& $25x = 2 tg = \frac{1}{1 + y'(x_0) - y'(x_0)}$ $g_1'(\lambda) = \frac{1}{25\lambda}$ 1×=1 $y_{1}'(x) = \frac{-1}{25x}$ $y_{1}'(x_{0}) \cdot y_{2}'(x_{0}) = \frac{1}{2} \cdot (-\frac{1}{2}) = \frac{-1}{4}$ $bg \ \varphi = \left| \frac{\frac{1}{2} - (-\frac{1}{2})}{1 + \frac{1}{2} \cdot (-\frac{1}{2})} \right| = \left| \frac{1}{\frac{3}{4}} \right| = \frac{4}{3}$ 4= arctg 3. $N^{2}3.$ $y = (A \times +B) - e^{-x}$ yp-nexule: $y'' + 2y' + 3y = (4x +6) \cdot e^{-x}$ y'= A.e. + (Ax+B).(-e-x) = A.e. x - (Ax+B).e. x $y'' = A \cdot e^{-x} \cdot (-1) - (Ae^{-x} + (Ax + B) \cdot e^{-x} \cdot (-1)) = -2Ae^{-x} + (Ax + B) \cdot e^{-x}$ $(Ax+B) \cdot e^{-x} - 24e^{-x} + 24 \cdot e^{-x} - 2 \cdot (Ax+B) \cdot e^{-x} + 3 \cdot (Ax+B) \cdot e^{-x} = (4x+6) \cdot e^{-x}$ Musicalle Toxque Lo 7 que monto, nepeg crenence un x, T.e. A=2 B=6. 2 (Ax+B) = 2.(2x+6)