26 | 04| 2046
4)
$$\int_{0}^{1} (x) = \frac{4}{x^{12}/x} - \frac{2}{x^{12}/x} = 4 \cdot \frac{x}{x^{12}+2} - 2 \cdot \frac{x}{x^{12}+4} = \frac{4x}{x^{12}+2} - \frac{2x}{x^{12}+4} = \frac{4x(x^{12}+4)-2x(x^{12}+2)}{(x^{12}+2)(x^{12}+4)} = \frac{4x^{12}+4x^{12}-2x(x^{12}+2)}{x^{12}+4x^{12}-2x^{12}+2} = \frac{2x^{12}}{x^{12}+3x^{12}+2}$$

$$C = \frac{(4x^{12}+4x)-(2x^{12}+4x)}{x^{12}+2x^{12}+2} = \frac{2x^{12}}{x^{12}+3x^{12}+2}$$

$$C = \frac{x \cdot 0(x)}{x^{12}+2x^{12}+2} = \frac{2x^{12}}{x^{12}+3x^{12}+2}$$

$$C = \frac{x \cdot \beta'(x)}{\beta(x)}$$

derivata=
$$(\frac{g}{9})' = \frac{g' \cdot g - g \cdot g'}{g^2} =$$

$$= \frac{2(3x^{2}) \cdot x^{4} + 3x^{2} + 2 - 2x^{3} \cdot 4x^{3} + 3 \cdot (2x) + 0}{(x^{4} + 3x^{2} + 2)^{2}} = \frac{6x^{2}(x^{4} + 3x^{2} + 2) - 2x^{3}(4x^{3} + 6x)}{(x^{4} + 8x^{2} + 2)^{2}} =$$

$$=\frac{(6x^{6}+18x^{4}+12x^{2})-(8x^{6}+12x^{4})}{(x^{4}+8x^{2}+2)^{2}}=\frac{-2x^{6}+6x^{4}+12x^{2}}{(x^{4}+3x^{2}+2)^{2}}$$

$$\lim_{X \to 0} (c) = \lim_{X \to 0} \frac{-x^4 + 3x^2 + 6}{x^4 + 3x^2 + 2} = \frac{6}{2} = 3$$

$$a_1 = r_1 = \frac{1}{x}; \quad r_2 = \frac{2}{x}; \quad \xi_1 = \frac{2}{x + r_1}; \quad \xi_2 = \frac{4}{x + r_2}; \quad y = \xi_2 - \xi_1$$

$$X + \frac{1}{X} = \frac{X^{2} + 1}{X} \longrightarrow \frac{X}{\frac{X^{2} + 1}{X}} = X \cdot \frac{X}{X^{2} + 1} = \frac{X^{2}}{X^{2} + 1} \longrightarrow \frac{X^{2}}{X} = \frac{1}{X} \cdot \frac{X}{X^{2} + 1} = \frac{1}{X^{2} + 1}$$

$$\mathcal{E}_{a_{1}} = \mathcal{E}_{r_{1}} \left\{ \frac{1}{X^{2}+1} \cdot (-1) \cdot \mathcal{E}_{g_{1}} \right\} + \mathcal{E}_{r_{2}} \left\{ \frac{1}{X^{2}+2} \cdot (-1) \cdot \mathcal{E}_{g_{2}} \right\} + \mathcal{E}_{g_{1}} \left\{ \frac{1}{g_{2}-g_{1}} \right\} + \mathcal{E}_{g_{2}} \left\{ \frac{-g_{2}}{g_{2}-g_{1}} \right\} + \mathcal{E}_{g_{1}}$$

$$\begin{cases}
8(x) = \frac{3x-2}{3x+2} - \frac{x-3}{x+3} \\
= \frac{(3x-2)(x+3)-(x-3)(3x+2)}{(3x+2)(x+3)} = \frac{(3x^2+9x-2x-6)-(3x^2+2x-9x-6)}{3x^2+44x+6} = \frac{3x^2+44x+6}{3x^2+44x+6} \\
= \frac{3x^2+9x-2x-6-3x^2-2x+9x+6}{3x^2+44x+6} = \frac{48x-4x}{3x^2+44x+6} = \frac{14x}{3x^2+44x+6} \\
8(x) = \frac{3x-2}{3x^2+44x+6} = \frac{3x^2+44x+6}{3x^2+44x+6} = \frac{3x^2+44x+6}{3x^2+44x+6} = \frac{3x^2+44x+6}{3x^2+44x+6} = \frac{3x^2+44x+6}{3x^2+44x+6} = \frac{3x^2+44x+6}{(3x^2+44x+6)^2} = \frac{42x^2+454x+84-84x^2-454x}{(3x^2+44x+6)^2} = \frac{42x^2+44x+6}{(3x^2+44x+6)^2} = \frac{42x^2+4x+6}{(3x^2+4x+6)^2} = \frac{42x^2+4x+6}{(3x^2+4x+6)^2} = \frac{42x^2+4x+6}{(3x^2+4x+6)^2} = \frac{42x^2+4x+6}{(3x^2+4x+6)^2} = \frac{42$$

$$\lim_{x \to -\infty} = \frac{-\infty}{\infty} = -1$$

$$\lim_{x \to -\infty} = \frac{3x - 2}{3x + 2} \qquad f_2 = \frac{x - 3}{x + 3} \qquad y_4 = g_4 - g_2$$

