Baganne 3 1) y= (sin(x)+cos(x)) e (sin(x)-cos(x)) y= (cos(x)-Sin(x)) (Sin(x)-cos(x) + (Sin(x)+cos(x)) - e · (cos(x)+Sin(x))= = e(sin(x)-cos(x) (cos(x)-sin(x) +1+sin(2x) $2) y = \left(\frac{x - 5x^{7}}{x + 5x}\right)^{2} = 2$ $y = 2 \times \sqrt{5} \times (1 - \frac{1}{2\sqrt{5}}) (x + \sqrt{5}) - (x - \sqrt{5}) (1 + \frac{1}{2\sqrt{5}})$ (x+2x)5 $= 2 \frac{\sqrt{x}(\sqrt{x}-1)}{\sqrt{x}} \cdot \frac{\sqrt{x}}{\sqrt{x}} = \frac{2x(\sqrt{x}-1)}{(x+\sqrt{x})^2}$ $= 2 \frac{\sqrt{x}(\sqrt{x}-1)}{\sqrt{x}} \cdot \frac{\sqrt{x}}{\sqrt{x}} = \frac{2x(\sqrt{x}-1)}{(x+\sqrt{x})^2}$ $= 2 \times \sqrt{x} - 2 \times (x + \sqrt{x})^3$ 3) 4= In (21+e2x+e4x1) y = 1 (ex.2 +e w) 251+e2x+e4x (ex.2) = 1+e2x+e4x. (e2x+2e4x) = e2x +e4x

 $\frac{1}{(x)} = \frac{1}{(x-1)^2} = \frac{1}{(x-1)^2} = \frac{1}{(x-1)^2} = \frac{1}{(x-1)^2}$ $\frac{1+(x+1)^2}{(x-1)^2} = \frac{(x-1)^2+(x+1)^2}{(x-1)^2+(x+1)^2} = \frac{1}{(x-1)^2+(x+1)^2}$ $\frac{2}{(x-1)^2+(x+1)^2} = \frac{2}{2} + \frac{2}{2} + \frac{1}{2}$ 5) y= + g3 (6x)(ex +1) y = 3 + 2 (6x) · (1) 2 · 6ex + + c (6x) - ex · (-1) = = 3 (Sin(6x)) · (1) · (6e) · Sin(6x) · ex 1 = = 18 ex - Sin2 (6x) - Sin (6x) - ex C) KARRINGER (SINGLA) TO THE TOTAL OF THE TO $y = C_1 \times C_2 \times (S_1 \times S_2 \times S_1 - X_1 \times S_2 \times$ $= \frac{1}{\sqrt{1-Sin^{3}(x)}} \cdot \frac{Sin(2x) - \frac{1}{3}}{(1-x)^{\frac{2}{3}}} - \frac{1}{(1-x)^{\frac{2}{3}}}$

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