

Juan Pablo Ludveña Zakka 5 (x2-1)2 - (11-x2 = (F(1)- (F1)) + (F2(1) - (2(-1)))= $=\left|\left(\frac{1^{5}}{5}-\frac{2\cdot 1^{3}}{3}+1\right)-\left(\frac{1^{-10^{5}}}{5}-\frac{2\cdot 60^{3}}{3}+60\right)-\left(\left(\frac{1-1^{3}}{3}\right)-\left(\frac{1}{3}-\frac{1}{3}\right)\right)\right|=$ $=\left(\frac{1}{5}-\frac{2}{3}+1\right)-\left(-\frac{1}{5}+\frac{2}{3}-1\right)-\left(\left(1-\frac{1}{3}\right)-\left(-1+\frac{1}{3}\right)\right)=$ $= \left(\frac{8}{15} - \left(-\frac{8}{15} \right) - \left(\frac{9}{3} - \left(-\frac{2}{3} \right) \right) + \left(\frac{8}{15} + \frac{8}{15} \right) + \left(\frac{2}{3} + \frac{2}{3} + \frac{2}{3} \right) + \left(\frac{2}{3} + \frac{2}{3} + \frac{2}{3} \right) + \left(\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} \right) + \left(\frac{2}{3} + \frac{$ $= \frac{16}{15} - \frac{4}{3} = -\frac{4}{15} = \frac{4}{15} = A$ b) $\int \frac{2+3x+x^2}{x(x^2+1)} dx$ 2+3x+x2 = 3x(x2+1) + (bx+c)x(x2+1) 52 + -x+3 dx = 2+3x+x2=3x2+3+6x2+cx 2+3x+x2=(0+6)x2+cx+0 $= \int \frac{2}{x} dx + \int \frac{-x+3}{x^2+1} dx =$ $=2\left(\frac{1}{x}\partial x + \int \frac{x}{x^2+1} \frac{3}{x^2+1} \partial x = \frac{2}{x^2+1} \partial x = \frac{2}{x^2+$ 1=2+6 = 2 10 1×1+ (-5 × 0×+) 3 0×= b = -1 $= 2 |\alpha|x| - \int \frac{x}{x^2+1} dx + 3 \int \frac{1}{x^2+1} dx = (x)$ Poper pago

