Quiz ¢ (1) Scexdx Speckax = Sk / du W= secx = [(W2-1) 1/2 du du = secx tanx dx = 800 tan (h) + C Secztanizzi ; du = W Tuzzi dx = tan- (seex) +C dx = 1 du (5) 2 (X-1)/x-1)2 gx $= \int \frac{(x_3+1)(x-1)_3}{5x(x-5)} dx$ = $\sqrt{\frac{x^2+1}{x^2+1} + \frac{3}{x-1} + \frac{c}{(x-1)^2}} dx$ Now solve for A,B,C

A(x2-2x+2) + B(x3-x2+x-1) + C(x2+1) = 2x2-4x Compare the coefficients: 3:0 A=2, C=-2 = $\int \frac{2}{x^2+1} dx + \int \frac{-2}{(x-1)^2} dx$ + C

= $2 \sin(x) + \frac{2}{x-1}$

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