$$f'(x) = \frac{x^{sin(x)+ln(x^2-4)-1}*(sin(x)+ln(x^2-4))*cos(sin(1)^2+x*4)-(-1)*sin(sin(1)^2+x*4)*4*x^{sin(x)+ln(x^2-4)}}{cos(sin(1)^2+x*4)^2}$$