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