Problem 2 (due Monday, February 24)

Is it possible to find two functions $f,g:\mathbb R_0 \to \mathbb R_0$ in two variables such that $[\cos(xy)=S(f(x),g(y))]$ for all real numbers x,y. (Recall that a rational function in 2 variables is a quotient of two polynomial functions in two variables).

The problem was solved by Josiah Moltz and Dr Mathew Wolak. Their solutions follow the same idea as our in-house solution. For details see the following link Solution.

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