Problem of the Week

Week 10, due November 4th 11.59pm

NAME: ⸺

NAU Email: ⸺

Instructor name (for credit): ⸺

Please write clean, neat and complete solutions to the problem in order to receive full credit. Your job is to convince me, or really anybody who reads this document, that you understand the problem and are able to communicate what you are thinking about. Please submit your solutions through Gradescope(https://www.gradescope.com/) by the indicated deadline. You might need to create an account with your NAU email. To enroll into the Problem of the Week course use entry code: NYZ56P. Good luck and have fun!

PROBLEM.

Determine the value of xy if $x + y = 1$ and $x^3 + y^3 = \frac{1}{2}$. Provide an explicit example of such x, y.