

Problem of the Week

Week 2, due Sep 15th 11.59pm

NAME: _____
NAU Email: _____
Instructor: _____

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. Peculiar quadratic.

Consider the quadratic function $g(x) = x^2 + bx + c$ defined on the set of real numbers. Given that the zeros of g are some distinct prime numbers p and q , and $g(p - q) = 6pq$, determine the primes p and q , and the coefficients b and c .

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