

Problem of the Week #5 (Spring 2020)

Find all integers x and y for which $x^3 + x^2 + x + 1 = y^3$.

[Please fully explain your answer.]

Solutions should be submitted to Cinda Furry, in Gardner Hall 435, by 4:00 P.M. on Wednesday, March 11, 2020.

Every week, the best solution submitted earns a \$10 Platteville gift certificate; the top scorer each semester also wins a cash award. Good luck! You can always see the Problem of the Week (and complete rules) online at:

http://uwpmath.weebly.com/