

# PROBLEM OF THE WEEK 11

Due Wednesday, November 21 at 5:00 pm

**Question.** Prove that the equation  $x^3 + 3 = 4y(y + 1)$  has no solutions in integers.

---

- All answers should be clearly explained. Submit it to the Math/Stat Office, AMB 107.
- If your instructor gives you credit for POTW, write his/her name with the class number.
- Contact Bahattin Yildiz with questions: bahattin.yildiz@nau.edu (AMB 134)
- The problems are available online at <https://naumathstat.github.io/problem-of-the-week/>