

PROBLEM OF THE WEEK 22

Due Wednesday, April 10 at 5:00 pm

Question. If $x = \sqrt[3]{11 + \sqrt{337}} + \sqrt[3]{11 - \sqrt{337}}$, find the value of $x^3 + 18x$. (Calculator answers are not accepted. You need to explain your answer mathematically.)

- 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/>