

# PROBLEM OF THE WEEK 13

Due Wednesday, January 29 at 5:00 pm

**Question.** Find the largest prime  $p$  for which  $\sqrt{17p + 625}$  is an integer. (Do not just try the primes, you have to prove that the prime you found is the largest such prime.)

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- 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)