

# PROBLEM OF THE WEEK 1

Due Wednesday, September 12 at 5:00 pm

**Question.** Prove that the sequence  $a_n = \sqrt{24n + 1}$ ,  $n = 1, 2, 3, \dots$  contains all prime numbers except 2 and 3.

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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)