PROBLEM OF THE WEEK 14

Due Wednesday, February 5 at 5:00 pm

Question. Find positive integers n and r such that

$$\binom{25}{10} + 2\binom{25}{11} + \binom{25}{12} + \binom{27}{13} + \binom{28}{14} = \binom{n}{r}.$$

(This is not just a calculator problem, please give a mathematical explanation for your solutions.)

- 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)