LEWIS AND CLARK COLLEGE
Department of Mathematical Sciences

PUZZLE OF THE WEEK (11/23/2016 - 11/29/2016)

How many different pairs of integers (x, y) are there with $x^2 - y^2 = 2016$?
Justify your claim.

- Congratulations to successful solvers of Puzzle #12: Brooke Alexander, William DeLee, Emma Gjullin, Zixuan Hu, David Lovitz, Eve Lowenstein, Lars Mayrand, Mary Passarelli, Meng Peng and Isis Terrall! Many of the solutions omitted a justification that the optimal value of $\sqrt{2}$ can actually be achieved. A complete solution can be found online – look for the Puzzle of the Week announcements on the departmental web-page.

- Solvers of this week's puzzle should include their name, address, and status at the College. Solutions should be submitted to **Iva Stavrov** in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on **Tuesday, November 29th 2016**.