## PUZZLE OF THE WEEK (11/30/2016-12/6/2016)

Find, with proof, all functions $f: \mathbb{R} \rightarrow \mathbb{R}$ that satisfy the inequality

$$
f(x+y)+f(y+z)+f(z+x) \geq 3 f(x+2 y+3 z)
$$

for all $x, y, z \in \mathbb{R}$.

- Congratulations to successful solvers of Puzzle \#13: Chris Karagiannis and Elias Williamson! A possible solution of the puzzle 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, December 6th 2016.

