1114-00-157 **Alvin Kim*** (`alvin.kim@live.com`), 22529 Kent Avenue, Torrance, CA 90505. *Exploring Inequalities.*

We all probably know the basic inequality relationships: QM (or RMS)-AM-GM-HM, rearrangement inequality, and Cauchy-Schwarz inequality. I will show that we can manipulate these simply-seeming relationships for proving problems that look complicated, with hardly any use of other relationships. The majority of the problems come from the Gazeta matematica and have been distributed during the workshops of Fullerton Mathematical Circle. Also included in the talk, is an inequality that I managed to generalize and successfully proved, using only the basic inequality relationships as building blocks. (Received August 24, 2015)