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Bonnie Gold* (bgold@monmouth.edu). *What makes proofs explanatory? Let's look at some examples.* Preliminary report.

Both in mathematics and in philosophy, a few good examples can help clarify a concept. So, to try to make some progress understanding the idea of explanatory proofs, I will look at several proofs that the sum of the first n positive integers is $n(n+1)/2$, and examine to what extent, and why, some of them seem more explanatory than others. (Received September 09, 2019)