

Here are some additional resources. You may want to check out the examples in these books or try their homework problems.

1. Mathematical thinking; problem solving and proofs - J. P. D'Angelo and D. B. West. Math Stacks QA39.2 .D25 2000 .Some challenging homework, but no homework solutions.
2. Basic concepts of mathematics and logic - Michael C. Gemignani : Odegaard Reserve QA39.G38. No number theory; answers to odd exercises.
3. How to prove it: A structured approach - Daniel J. Velleman : Odegaard Reserve QA9.V38.2006. No number theory. It has solutions to selected exercises.
4. A Transition to Advanced Mathematics - Douglas Smith : Odegaard Reserve QA37.2.S575.2011. No number theory; it has answers to selected exercises.
5. Reading, writing and proving- U. Daepf, P. Gorkin.  
Math Stacks. QA13 .D34 2003 It has exercises with solutions in each Chapter