

**HOMEWORK 2**  
**MATH 308**  
**DUE: 9/13/2018**

1. Write up a summary (about half a page) of [1].
  2. Read the second article from class.
    - (a) Write a self-evaluation on how you used or did not use the advice from Chapter 2 to read the article. Be specific.
    - (b) Write summary of the article, including what its aim or aims are.
    - (c) Reflect: Can you connect the topic(s) of the article to things you've learned before? Who was the intended audience of this article, and did that include you? Can you ask any related questions to those answered in the text; i.e. what might a follow-up article be about?
- Include a (very short) references section, citing the article you read. (See the  $\text{\LaTeX}$  file of this assignment for an example. Note that you might have to compile your file 2 or 3 times to get your references to come out correctly.)
3. Give a final draft of the “proof without words” proof, including the revised theorem statement. (For pictures, for now, you can either (1) leave space, using “ $\backslash\text{vspace}\{???\text{in}\}$ ”, and draw the picture in by hand; create a digital picture and save it as a pdf, and use “ $\backslash\text{includegraphics}\{\text{width}=??\text{in}\}\{\text{FILENAME}\}$ ”; or use TikZpicture to code your diagram.)
  4. Do Exercise 3.2 from “How to think”, parts (i) and (ii).

**Additionally**, bring to class an extra copy of

- your “proof without words” proof, and
- Exercise 3.2 part (i),

each on its own piece of paper, each with your name on it, to swap for feedback.

REFERENCES

- [1] D. Daners, *A short elementary proof of  $\sum 1/k^2 = \pi^2/6$*  by Daniel Daners, Math. Mag. **85** (2012) 361–364.