

PMU 199 Mathematical Explorations

Sources for further reading on mathematics and mathematicians...

Required text:

E.B. Burger and M. Starbird. *The Heart of Mathematics. An invitation to effective thinking. 3rd ed.* John Wiley and Sons, Hoboken, 2010.

On mathematics:

T.W. Körner. *The Pleasures of Counting.* Cambridge University Press, New York, 1996.

Ian Stewart. *From Here to Infinity.* (formerly titled *The Problems of Mathematics*). Oxford University Press, New York, 1992.

W.W. Rouse Ball and H.S.M. Coxeter. *Mathematical Recreations and Essays.* Dover Publications, New York, 1987.

G. Polya. *How to solve it.* Princeton University Press, Princeton, 1945.

On mathematicians:

Freeman J. Dyson. *Disturbing the Universe.* Harper & Row, New York, 1979.

G.H. Hardy. *A Mathematician's Apology.* Cambridge University Press, London, 1967.

W.P. Thurston. On proof and progress in mathematics. *Bull. Amer. Math. Soc.* **30** (1994) 161–177.

The required text has been ordered at the UofT bookstore but is not in stock yet (CDN \$157.95 bound (which can be returned / resold to the bookstore) or \$102.95 binder ready (which cannot be returned)). The bound version is also available at amazon.ca for \$ 148.19 and amazon.com for US \$ 99.99. A copy of an earlier edition of the text has been placed on course reserve in the mathematics library.