

**Computing and Software 734  
Formalized Mathematics**

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McMaster University, Winter 2014**

**Exercise 7**

**20 pts.**

**Due 8 April 2014**

Assigned: 17 March 2014

Revised: 17 March 2014

**Part 1.** Using your chosen proof assistant, create a theory interpretation of `ComMonoid` in the additive part of `PeanoArithmetic`.

**Part 2.** Similarly, create a theory interpretation of `ComMonoid` in the multiplicative part of `PeanoArithmetic`.

Send the instructor the files you produced with comments and instructions on how they can be loaded and checked. If you can't create these interpretations in your chosen assistant, carefully explain why.