

# MATH 402 Homework 1

Due Friday 1/26/18

From Hvidsten's *Geometry (with Geometry Explorer)*:

- (1) (5 pts.) Write out the definition of a *group* (see p.24 in the book).
- (2) (10 pts.) Solve exercises 1.4.6, 1.4.7
- (3) (5 pts.) Write out Peano's *axioms for natural numbers* (see p.24-25 in the book).
- (4) (15 pts.) Solve exercises 1.4.9, 1.4.11, 1.4.12.
- (5) (10 pts.) Solve exercises 1.5.8, 1.5.9.
- (6) (5 pts.) Solve exercises 1.6.2, 1.6.3.