

MATH 340 Assignment 1, Fall 2017

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This assignment is to be handed in on Monday September 18th.
Please hand in to dropoff box #6 outside AQ 4115 by 11:20am.
Late penalty: -20% for up to 24 hours late. Zero for more than 24 hours late.

Section 1.1: Sets, Functions, Numbers

Read Section 1.1 and especially the argument on page 12 that says: a function f is bijective if and only if it has an inverse.

Exercises 6–9, 10–12, 15–16, 19 from the text.

Section 1.2: Induction

Exercises 4, 7. Please pay attention to how you write your proofs.

Section 1.3: Divisibility

Exercises 2, 6, 13 (i) & (ii), 14, 15 and 18.

For exercise 6, use induction on n .

For exercise 13 create tables like the one shown for Example 1.3.7 on page 23.