# Handout 11A

## Barnier and Feldman Exercises

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### Corrections to B & F Book Exercises page 107 §3.4[1]

We want to have all the universes for 'constructive' sets be subsets of $\mathbb{R}$ and universes for collections to be subcollections of $\mathcal{P}(\mathbb{R})$
For the universes for 'arbitrary' sets and universes for collections we simple assume we have a well defined universe, $U$ to have the universe for collections to be $\mathcal{P}(U)$.

1. Let $U = \mathbb{N}_7$; so, $V = \mathcal{P}(\mathbb{N}_7)$

3, 4, 5, 6, 7, 8. Let $U = \mathbb{R}$ so, $V = \mathcal{P}(\mathbb{R})$

17, 18, 19, 22, and 23. Let $U$ be a well defined universe and the universe for collections be $\mathcal{P}(U)$. Let $\Gamma$ and $\Omega$ be non-empty collections of sets from $U$.

20, 21. Let $U$ be a well defined universe and $A, B, C$ be sets.

[1] According to Dr. M.