

Set #3

10 points

- (1) 1.2.7
- (2) 1.2.11
- (3) 1.3.9
- (4) 1.3.12
- (5) 1.4.8
- (6) 2.1.4
- (7) 2.2.4
- (8) 2.2.7
- (9) 2.4.13
- (10) Let $a, b \in \mathbb{R}$. Show that if $a \leq b + \frac{1}{n}$ for all $n \in \mathbb{N}$, then $a \leq b$.