

Homework 5

June 5

1. 3.6.7
2. 3.6.44 (you can just do it for \mathbb{R}^3 : the idea in both is the same)
3. 3.6.53 (I used this a few times; prove it from the definition given in the book/notes that $T(\mathbf{x} + \mathbf{y}) = T\mathbf{x} + T\mathbf{y}$ and $T(c\mathbf{x}) = cT\mathbf{x}$)

June 6 (weekend)

4. 4.1.12
5. 4.1.24
6. 4.1.37