

## 244 Math

### Chapter 4

#### Chapter 4: Euclidean Vector Spaces

4.1: Euclidean  $n$ -Space

4.2: Linear Transformations from  $\mathbb{R}^n$  to  $\mathbb{R}^m$

4.3: Properties of Linear Transformations from  $\mathbb{R}^n$  to  $\mathbb{R}^m$

#### Exercises:

4.1: 1(b,f), 2, 3, 4, 6(d, e, f), 9(d), 10(a), 11(b,c), 14(e,f), 16, 17, 18(b), 19

4.2: 1, 2(d), 3, 4(b,c), 5(c,d), 6(a,d), 8, 10, 12(c), 16(a,b), 20(a,c)

4.3: 1(a,c), 2(b,d), 4, 5(a,c), 6(c), 7(a,c), 8(b,c), 10(b), 12(a,e), 13(b,c), 15(b,c), 16, 17(c)