This weeks problem set focuses on the ideas of bases and linear transformations. A question marked with a  $^{\dagger}$  is difficult and probably too hard for an exam (though still illustrates a useful point). A question marked with a  $^*$  is especially important.

- 1. From section 1.6, problems 1, 2a, e, 3a, c, 4, 6, 14, 15,  $20^*$ , 26,  $28^{\dagger}$ , 33,  $34^*$ ,  $35^*$ .
- 2. From section 2.1, problems 1, 2, 5, 6, 9\*, 14, 14b.