

This weeks problem set provides practice with the Gram-Schmidt process and adjoint operators. 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.

**Homework 6:** due Friday 16 March: questions 22*a* from 6.2 and 4*a, b* below.

1. From section 6.3, problems 1, 2*a*, 3*a, c*, 4, 6, 8 $*$ .
2. From section 6.4, problems 1, 2*a, c, d*, 4, 9, 12 $*$ , 14 $*$ , 16 $\dagger$ , 17, 20.