

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.

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