## Glossary

| Engelsk | Norsk |
| :---: | :---: |
| conic section | kjeglesnitt |
| hyperbola | hyperbel |
| parabola | parabel |
| ellipse | ellipse |
| quadratic form | kvadratisk form |

## Compulsory exercises

Hand in your solutions to these exercises. All answers must be justified.

## Chapter 7.1 - Orthogonal matricies

Exercise 1 Do exercise 2 in chapter 7.1 of Elementary Linear Algebra.
Exercise 2 Do exercise 26 in chapter 7.1 of Elementary Linear Algebra.

## Chapter 7.2- Orthogonal diagonalization

Exercise 3 Do exercise 12 in chapter 7.2 of Elementary Linear Algebra.
Exercise 4 Do exercise 19 and 20 in chapter 7.2 of Elementary Linear Algebra.

## Chapter 7.3-Quadratic forms

Exercise 5 Do exercise 11 and 12 in chapter 7.3 of Elementary Linear Algebra.
Exercise 6 Do exercise 15 in chapter 7.3 of Elementary Linear Algebra.

