

## Homework assignment 1

*Hand in on DTU Learn before 21 September 11pm*

### 1 Multiple choice (40%)

Each question has only ONE correct answer. In the pdf file with your answers, you just need type the number of the answer. You get 10% for a correct answer, 0% for no answer, and -5% for a wrong answer.

**A – Errors.** A number  $a$  is correctly rounded to 3.18 from a given number  $b$ . Then  $|a - b| \leq c$ , where  $c$  is

1. 0.05.
2. 0.005.
3. 0.01.
4. 0.18.

**B – Data-fitting.** The viscosity  $V$  of a liquid is known to vary with temperature according to a quadratic law

$$V(T) = a + bT + cT^2. \quad (1)$$

We want to find the best function of the form (1) in the least-squares sense to fit the following data

|     |      |      |      |      |      |      |
|-----|------|------|------|------|------|------|
| $T$ | 2    | 4    | 6    | 8    | 10   | 12   |
| $V$ | 2.31 | 2.01 | 1.80 | 1.66 | 1.55 | 1.47 |

Please find the correct answers to the following two questions.

**Question B1:** The sizes of the system matrix and the right-hand side of the normal equation are

1.  $6 \times 3$  and  $6 \times 1$ , respectively.
2.  $3 \times 6$  and  $6 \times 1$ , respectively.
3.  $3 \times 3$  and  $3 \times 1$ , respectively.
4.  $6 \times 3$  and  $3 \times 1$ , respectively.
5.  $12 \times 3$  and  $3 \times 1$ , respectively.

**Question B2:** The solution of the normal equation is:

1.  $a \approx 0.0067$ ,  $b \approx -0.1755$ , and  $c \approx 2.6220$ .

# Homework Assignment 1 Search Algorithms

**Chao Zhang**



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