

### Exercise 1

#### EXERCISE 1A

1.a

```
>> Machacon_Cena_LE1A
1.a
      5      0      4
      2     -3      9
```

1.b

```
1.b
      1      0
      9      8
```

1.c

```
1.c
      4      7     -1
     -4    -15     10
```

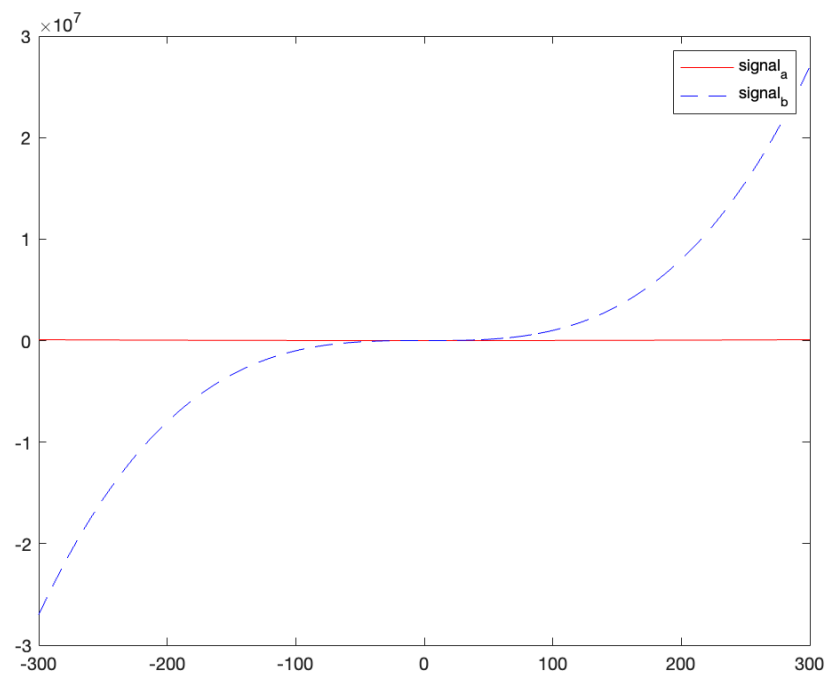
2.

```
2.
      -6     -6
      21     13
       6      0
```

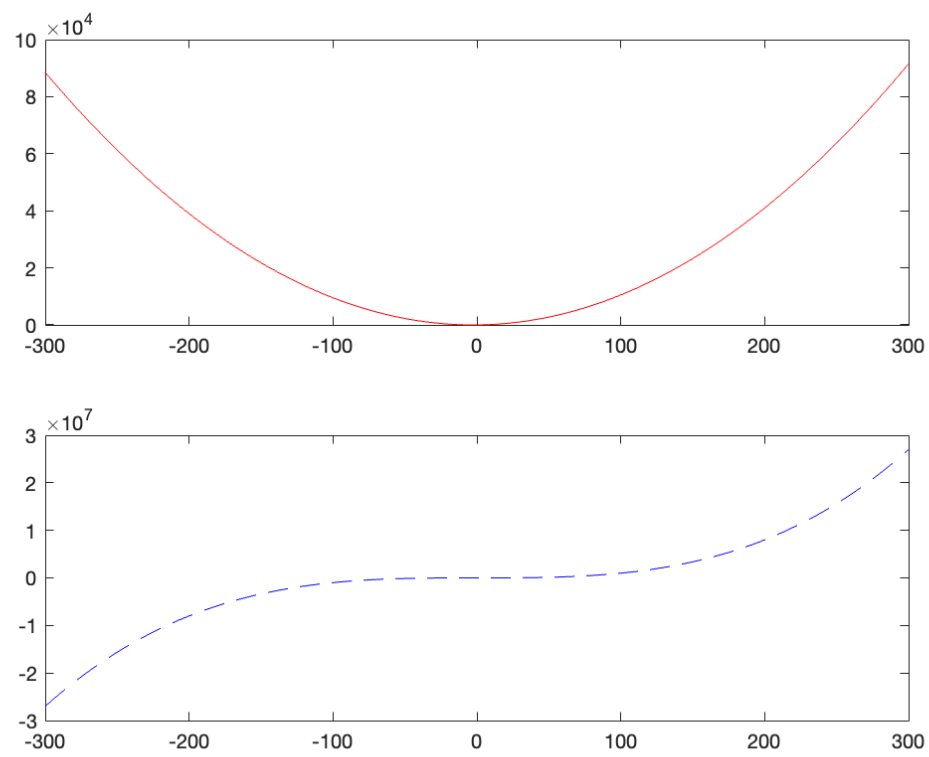
3.

```
3.
      -6     -6
      21     13
       6      0
```

4.



5.



6.a.

6.

$$\begin{aligned} & -31.8324 + 0.0000i \\ & -0.0669 + 1.6287i \\ & -0.0669 - 1.6287i \\ & 0.2275 + 0.3069i \\ & 0.2275 - 0.3069i \\ & -0.2444 + 0.1458i \\ & -0.2444 - 0.1458i \end{aligned}$$

6.b

$$\begin{aligned} & 0.3600 + 2.8093i \\ & 0.3600 - 2.8093i \\ & -0.0216 + 0.4914i \\ & -0.0216 - 0.4914i \\ & -0.3435 + 0.0000i \end{aligned}$$

6.c

$$\begin{aligned} & -76.8570 + 0.0000i \\ & -0.0715 + 0.0889i \\ & -0.0715 - 0.0889i \end{aligned}$$

7.a

7.

Columns 1 through 10

3	95	16	1024	413	2305	981	586	274	65
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Columns 11 through 13

29	12	2
----	----	---

Columns 1 through 10

1	109	2483	1054	6669	1252	209	247	111	14
---	-----	------	------	------	------	-----	-----	-----	----

Column 11

1
---

7.b

Columns 1 through 10

1	109	2483	1054	6669	1252	209	247	111	14
---	-----	------	------	------	------	-----	-----	-----	----

Column 11

1
---

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## EXERCISE 1B

### Fibonacci

```
>> Machacon_Cena_LE1B
Fibonacci numbers between 1 - 10
    1    1    2    3    5    8

Fibonacci numbers between 2 - 10
    2    3    5    8

Fibonacci numbers between 4 - 13
    5    8   13
```

### Palindrome

```
racecar is a palindrome.
pop is a palindrome.
anna is a palindrome.
aibohphobia is a palindrome.
you is not a palindrome.
spotify is not a palindrome.
```