

# Intensive computation

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Part A

- Student's Name -

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- *Matricola* number -

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Exercise 1 (6 points)	
Exercise 2 (5 points)	
Exercise 3 (5 points)	
Question 1 (6 points)	
Question 2 (4 points)	
Question 3 (5 points)	
Total (31 points)	







**Exercise 3 (5 points) – Errors**

- a) Given  $y' = 9,95$  as the approximation of  $\pi^2$ , compute the **absolute** and **relative** forward error and **absolute** and **relative** backward error.

**absolute** forward error

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**relative** forward error

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**absolute** backward error

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**relative** backward error

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- b) Compute the value of the condition number.

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