YTU – I	Faculty of Chemical and rgical Enginering, ns Sheet	NOTE CHART					
- Metanu		1. q	2.q		3. q		TOTAL
Student Name and Surname							
Students Number							
Section						Date	08.05.2020
Course Name	ANALYSIS II HOMEWORK	Group Number		Duration	120min	Room	ONLINE CLASS
Course Instructor Name and Surname	Prof. Dr. İnci ALBAYRAK				Signature		
Student Disciplinary Regulations "and to make or attempt to make copies of exams to" the actual perpetrators are suspended from one or							

two semesters. (YÖK; 2547 Student Disciplinary Regulations, 9. Article)

1) (35 pts) Evaluate the following integral

$$\int \frac{x^2(x^3+1)}{\sqrt{x^2-9}} dx = ?$$

2) (35 pts) Use Riemann sums to solve the following integral

$$\int_{0}^{2} (x^{2} + 2x + 3) dx = ? \quad \text{(Divide [0,2] to } n \text{ equal length)}$$

3) (30 pts) $c \in R$; for $\forall x > 0$, find f and c that provides the following equation

$$3 + \int_{c}^{x} \frac{f(t)}{t} dt = e^{\sqrt{x}}$$