

Université Galatasaray, Département de Mathématiques

Math 504 - Advanced Algebra

Quiz 6, 20/12/2021

Name & Surname:

ID:

Σ

1. Which of the following ideals are prime, which are maximal in $\mathbf{Z}[X]$?

i. $I = (5, X^3 + 2X + 3)$

ii. $I = (4, X^2 + X + 1, X^2 + X - 1)$