

MATH1009 – Quiz M2b
Wednesday, March 27, 2019
Instructor: Abuzer Yakaryilmaz

Name and surname:

Student number:

Questions

(30 minutes / 5 points in total)

1. (1 point) Write $(4x^3 - x^2 - 4x - 3)(x^3 - 2x^2 + 1)$ as a single polynomial.

Hint: You may verify your result by substituting x with -1 and 1 .

2. (2 points) Write $\frac{x^3 + 4x^2 - 4x - 16}{x - 2}$ as a single polynomial.

Hint: You may verify your result by substituting x with 0 and 1 .

3. (2 points) Completely factor the polynomial $x^4 - 3x^3 - x + 3$.

During the exam, please do not use any electronic device or any course (related) material.