

Written HW13 – MATH 2502 Fall 2021

Due by 3 March for timely completion credit

Use the method of partial fractions, showing all details (including all of the algebra) to resolve the following integrals:

1. $\int \frac{x^3 + 2x^2 + 1}{x + 1} dx$

2. $\int \frac{x + 2}{x^2 + 2x - 3} dx$

3. $\int \frac{x}{x^3 + 4x} dx$