Supplementary Homework Exercises for Section 8.5: Rational Functions (part 2)

Exercises

Integrate.

S1.
$$\int \frac{x}{x^3 - x^2 - x + 1} dx$$

S2.
$$\int \frac{2x^2 - x + 4}{x^3 + 4x} dx$$

S3.
$$\int \frac{1}{x^2(1+x^2)} dx^*$$

^{*}This is identical to Exercise 8.3.9, but you should attempt the problem using partial fractions.