

# Decision:

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1. The fraction is irregular, so we represent it as a sum of a polynomial and a regular fraction, dividing the numerator by a denominator.

# Subintegral function takes the form:

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$$f(x) = \underbrace{(x-2)}_{f_1(x)} + \frac{4x^3 + 4x^2 + 4x + 4}{\underbrace{x^4 + 2x^3 + 2x^2}_{f_2(x)}}$$

2. Decompose the denominator of a regular rational fraction to prime factors.