

NAME: \_\_\_\_\_ ID: \_\_\_\_\_ Section: \_\_\_\_\_

**Exercise 1** (5 points)

Write  $\frac{2}{x^3 - x^2 + x - 1}$  in partial fractions.

**Exercise 2** (5 points)

Determine whether the improper integral  $\int_2^{\infty} \frac{2}{x^3 - x^2 + x - 1} dx$  is convergent or divergent.

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**Exercise 1** (5 points)

Write  $\frac{2x^2 + 2x + 2}{x^3 + x^2 + x + 1}$  in partial fractions.

**Exercise 2** (5 points)

Determine whether the improper integral  $\int_0^{\infty} \frac{2x^2 + 2x + 2}{x^3 + x^2 + x + 1} dx$  is convergent or divergent

