

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

**Exercise 1** (5 points)

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

**Exercise 2** (5 points)

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

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

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**Exercise 1** (5 points)

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

**Exercise 2** (5 points)

Determine whether the improper integral  $\int_4^{\infty} \frac{x-1}{x^3+x^2+x+1} dx$  is convergent or divergent

