

Name: \_\_\_\_\_

Math 121

Self-Assessment Quiz #4

October 7, 2022

- Please see the course webpage for the answer key.

1. ~~Compute  $\int \frac{x^4 - 2x^3 + 4x^2 - 17x + 10}{x^3 - 3x^2 + 2x - 6} dx$  and  $\int \frac{x^4 - 2x^3 + 4x^2 - 17x + 10}{(x-3)(x^2+2)} dx$~~

\*\*\*IGNORE #1 here for FALL 2022

2. Compute  $\int \frac{x+7}{x^2+6x+14} dx$ .

3. Compute  $\int_2^{\infty} \frac{x}{e^{3x}} dx$ .

4. Compute  $\int_3^{\infty} \frac{7}{x^2+3x-10} dx$ .

5. Compute  $\int_8^{\infty} \frac{1}{x^2-10x+28} dx$ .