

MA 2320: Quiz 6

Name: _____

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

2. $\int \frac{2x^3 + 4x^2 + 2x + 2}{(x + 1)^2(x^2 + 1)} dx$

3. $\int \frac{x^4 + 1}{x^3 - x} dx$ Note the fraction is improper.

4. $\int_1^\infty \frac{1}{x^2} dx$

5. $\int_1^\infty \frac{1}{\sqrt{x}} dx$

6. $\int_1^\infty \frac{1}{x^2 + 1} dx$

7. $\int_1^\infty \frac{x}{x^2 + 1} dx$

8. $\int_0^1 \frac{1}{x^2} dx$