

18.01A Recitation — Monday, Oct. 1, 2018

Quick Review:

This recitation is about the method of partial fractions.

Practice problems:

1.

$$\int \frac{14x - 7}{2x^2 - 2x - 12} dx$$

2.

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

3. (long division)

$$\begin{array}{r} x^3 - 4x^2 + 2x - 3 \\ \hline x + 2 \end{array}$$

4.

$$\int \frac{6x^2 - 9x + 9}{x^3 - 3x^2} dx$$

5.

$$\int \frac{4x^2 + 2x + 4}{x^3 + 4x} dx$$

6.

$$\int \frac{3x^2 - x + 4}{x^3 + 2x^2 + 2x} dx$$