MAT 115 Worksheet 13
Tuesday, Nov 14 2017

Important info: Welcome to the MAT 115 workshop! My name is **Diego Avalos** (avalosgalvez@cpp.edu), and I will be your workshop facilitator. We meet on Tuesdays and Thursdays from 4 to 5:50 pm in room 4-1-314. My office hour is on Mondays from 11:30 am to 12:30 pm in room 94-219. All worksheets and solutions may be found at the website **www.diegoavalos.net/teaching/mat115workshop2017**.

Evaluate the following integrals using partial fraction decomposition.

1. $\int \frac{1}{x^2-3x-4}\,dx$
2. $\int \frac{11x+17}{2x^2+7x-4}\,dx$
3. $\int \frac{2x^2-9x-9}{x^3-9x}\,dx$
4. $\int \frac{x^2-8}{x+3}\,dx$
5. $\int \frac{3x^2-10}{x^2-4x+4}\,dx$
6. $\int \frac{2x-3}{x^2-3x-10}\,dx$
7. $\int \frac{x^5+x^2+2}{x^3-x}\,dx$
8. $\int \frac{2x^2+3}{x(x-1)^2}\,dx$
9. $\int \frac{2x^2-10x+4}{(x+1)(x-3)^2}\,dx$
10. $\int \frac{x^2}{(x+1)^3}\,dx$
11. $\int \frac{2x^2-1}{(4x-1)(x^2+1)}\,dx$
12. $\int \frac{x^3+3x^2+x+9}{(x^2+1)(x^2+3)}\,dx$