

MAT 115 Worksheet 13 Answers
Tuesday, Nov 14 2017

1. $\frac{1}{5} \ln \left| \frac{x-4}{x+1} \right| + C$
2. $\frac{5}{2} \ln |2x - 1| + 3 \ln |x + 4| + C$
3. $\ln \left| \frac{x(x+3)^2}{x-3} \right| + C$
4. $x^2/2 - 3x + \ln |x + 3| + C$
5. $3x + 12 \ln |x - 2| - \frac{2}{x-2} + C$
6. $\ln |x^2 - 3x - 10| + C$
7. $x + x^3/3 + \ln \left| \frac{(x-1)^2(x+1)}{x^2} \right| + C$
8. $3 \ln |x| - \ln |x - 1| - \frac{5}{x-1} + C$
9. $\frac{2}{x-3} + \ln |x - 3| + \ln |x + 1| + C$
10. $\frac{2}{x+1} - \frac{1}{2(x+1)^2} + \ln |x + 1| + C$
11. $-\frac{7}{34} \ln |4x - 1| + \frac{6}{17} \ln(x^2 + 1) + \frac{3}{17} \tan^{-1} x + C$
12. $3 \tan^{-1} x + \frac{1}{2} \ln(x^2 + 3) + C$