

MAT 115 Worksheet 16 Answers
Tuesday, Nov 28 2017

1. $\frac{x}{3\sqrt{3+x^2}} + C$
2. $5/12 - \frac{1}{2} \ln 2$
3. $\frac{1}{6} \sin^3 2x - \frac{1}{10} \sin^5 2x + C$
4. $\frac{2}{13} e^{2x} \cos 3x + \frac{3}{13} e^{2x} \sin 3x + C$
5. $4 - \pi$
6. $\ln \frac{\sqrt{e^x+1}-1}{\sqrt{e^x+1}+1} + C$
7. $\frac{\pi}{12} + \frac{\sqrt{3}}{2} - 1$
8. $\frac{\sqrt{3}}{3} \tan^{-1} \left(\frac{\sin x - 3}{\sqrt{3}} \right) + C$
9. $2 - \frac{\pi}{2}$
10. $2\sqrt{x} - 3\sqrt[3]{x} + 6\sqrt[6]{x} + 6\ln(\sqrt[6]{x} + 1) + C$