

MAT 115 Worksheet 11 Answers
Tuesday, Nov 7 2017

1. $-\frac{1}{4} \cos^4 x + C$
2. $\frac{1}{3} \sin^3 x - \frac{1}{5} \sin^5 x + C$
3. $\frac{1}{8}x - \frac{1}{32} \sin 4x + C$
4. $\frac{1}{2} \tan(2x - 1) + C$
5. $\ln |\cos(e^{-x})| + C$
6. $\frac{1}{3} \tan^3 x + C$
7. $\frac{1}{16} \sec^4(4x) + C$
8. $\frac{1}{7} \sec^7 x - \frac{1}{5} \sec^5 x + C$
9. $\frac{2}{3} \tan^{3/2} x + \frac{2}{7} \tan^{7/2} x + C$
10. $2 \sin^{-1}(x/2) + \frac{1}{2}x\sqrt{4-x^2} + C$
11. $8 \sin^{-1}(x/4) - \frac{x\sqrt{16-x^2}}{2} + C$
12. $\frac{1}{16} \tan^{-1}(x/2) + \frac{x}{8(4+x^2)} + C$
13. (a) $(85\sqrt{85} - 8)/243$, (b) $(80\sqrt{10} - 13\sqrt{13})/27$, (c) $17/6$
14. (a) $35\pi\sqrt{2}$, (b) 8π