Mat 115 Worksheet 3 Answers
Tuesdays, Oct 10 2017

1. 0

2. $1/8$ (use the double angle identity $2 \sin 2x \cos 2x = \sin 4x$)

3. $7\pi/12$

4. $\pi/3$

5. $6/7$

6. $6 + \frac{e^9 - e^{-9}}{3}$

7. $\sqrt{3} - 1$

8. 0

9. $\pi^2/24 + 2\sqrt{3} - 2$

10. $\sin x^2$

11. $\sqrt{1 - \cos x}$

12. $-x \sec x$

13. x

14. $3x^3$

15. $\frac{2x^{13}}{1+x^8} - \frac{3x^{20}}{1+x^{12}}$

16. (a) 0, (b) 4, (c) $4/5$

17. 4

18. $2/\pi$

19. $3/\pi$

20. $4/\pi$