

HW #19 Final Answers

1. $\frac{\pi}{4}$

16. $\frac{\pi}{9}$

2. $\frac{\pi}{2}$

17. $\frac{\pi}{6(\pi-1)}$

3. $-\pi$

18. 0

4. $\frac{\pi}{4} - 1 \stackrel{or}{=} \frac{\pi-4}{4}$

19. $1 + \frac{\pi}{4} \stackrel{or}{=} \frac{4+\pi}{4}$

5. $-\ln 2$

20. $2\ln 2$

6. $\frac{1}{6}$

21. $e^{-1} = \frac{1}{e}$

7. $\frac{3}{\pi}$

22. 0

8. $\ln\left(\frac{7}{6}\right)$

23. $-\frac{2}{25}$

9. e^{-e}

10. -2

11. -1

12. $\frac{e}{e-1}$

13. $-\frac{2}{81}$

14. π

15. e^x