Chapter 14

COMPLEX INTEGRATION

PROBLEM SET 14.1

P-1. line segment from (2,1) to (5,2.5).
P-2. line segment from (3,1) to (9,−2).
P-3. parabola $y = 2x^2$ segment from (1,2) to $z = (2,8)$.
P-4. parabola $y = (x-1)^2$ segment from (−1,8) to (1,0).
P-5. circle with center at (3,−1) and radius $\sqrt{10}$. (clockwise)
P-6. circle with center at (1,1) and radius 1. (clockwise)
P-7. semicircle with center at (2,1) and radius 4. (counterclockwise)
P-8. circle center at (0,0) and radius 5 from (5,0) to (0,-5)(clockwise).
P-9. segment of the curve $y = x^3$ from (−2,−8) to (2,8).
P-10. ellipse with semi major and minor 2 and 1 (counterclockwise).

P-11. $z = -1 + i + (2-2i)t$, $0 \le t \le 1$
P-12. $z = i + (2-i)t$, $0 \le t \le 1$.
P-13 $z(t) = 2 - i + 2e^{it}$, $(0 \le t \le \pi)$
P-14. $z = e^{-it}$, $(0 \le t \le 2\pi)$
P-15. $z(t) = 2\cosh t + i\sinh t$, $(-\infty < t < \infty)$
P-16. $z(t) = 3\cos t + 2i\sin t$, $(0 \le t \le 2\pi)$
P-17. $z(t) = -(a+ib) + re^{-it}$, $(0 \le t \le 2\pi)$
P-18. $z(t) = t + \frac{1}{2}i$, $(1 \le t \le 5)$
P-19. $z(t) = t + (1 - \frac{1}{8}t^2)i$, $(-2 \le t \le 2)$
P-20. $z(t) = 2 - i + \sqrt{5}\cos t + 2i\sin t, (0 \le t \le 2\pi)$
P-21. $4 + 4i$ **P-22.** $4 + \frac{25}{2}i$ **P-23.** 0
P-24. 0 **P-25.** $-\sinh 1$ **P-26.** $2\pi i$
P-27. $-1 + 0.6558i$ **P-28.** $-10\pi i$
P-29. $\frac{1}{2}(-1+i)$ **P-30.** $-1 - i$

PROBLEM SET 14.2

P-9. Yes, 0 **P-10.** Yes, 0
P-11. No, πi **P-12.** No, 0
P-13. Yes, 0 **P-14.** No, 0
P-15. No, $-\pi$ **P-16.** No, $2i$.
P-17. No, 0 **P-18.** No, $\frac{1}{2}\pi i$.
P-19. Yes, 0 **P-21.** $2\pi i$
P-22. $\frac{1}{2}\pi i$ **P-23.** $4\pi i$ **P-24.** $2\pi i$
P-25. 0 **P-26.** 0 **P-27.** 0
P-28. 0 **P-29.** 0 **P-30.** $-4\pi i$.

PROBLEM SET 14.3

P-1. $-\pi i$ **P-2.** πi.
P-3. 0 **P-4.** $-\pi i$.
P-5. $\frac{1}{2}\pi i$ **P-6.** $-0.6259 + 1.899i$
P-7. $\frac{1}{2}\pi$ **P-8.** $0.02428i$
P-11. $\frac{1}{2}\pi$ **P-12.** $-\pi i$
P-13. $8\pi i$ **P-14.** $\frac{2}{3}\pi(-2+i)$
P-15. $-60.739i$ **P-16.** -4.872
P-17. $1.089 + 2.467i$ **P-18.** $2.8485i$
P-19. πe^{2i} **P-20.** 0

PROBLEM SET 14.4

P-1. $-\frac{1}{2}\pi i$ **P-2.** $\frac{5}{32}\pi i$
P-3. $\dfrac{2\pi i}{(n-1)!}$ **P-4.** 0
P-5. $9.845i$ **P-6.** $-\frac{33}{256}\pi$
P-7. $\dfrac{2\pi i}{(2n)!}(-1)^n$ **P-8.** $\pi i(\sinh(1) - 6)$
P-9. $-2\pi^2 i$ **P-10.** $2\pi(-5+8i)$
P-11. $2.821i$ **P-12.** $-\dfrac{9\pi i}{2e^2}$.
P-13. πi **P-14.** $-\frac{1}{8}\pi i(3 + 2\mathrm{Ln}(-1))$.
P-15. 0 **P-16.** $\pi e^{3i}(4 + \frac{1}{2}i)$.
P-17. 0 **P-18.** $\dfrac{2\pi i}{(n-1)!}\begin{cases}1 & \text{if } n \text{ is even} \\ 0 & \text{if } n \text{ is odd}\end{cases}$
P-19. $-\dfrac{9\pi}{64\sqrt{2}}(1+i)$.

CHAPTER 14 REVIEW PROBLEMS

P-21. 2.468 **P-22.** 0
P-23. $\frac{1}{12}\pi i$ **P-24.** $\frac{\pi}{2} + i\frac{2\pi^2}{3}$
P-25. $-2\pi^2 i$ **P-26.** $\frac{11\pi}{12} + \frac{3\pi}{2}i$.
P-27. 0 **P-27.** 0
P-28. 0 **P-29.** $-4\pi i$.
P-30. $0.16626 + i0.988897$

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J Elliott

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