

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.  $z = -1 + i + (2-2i)t, \quad 0 \leq t \leq 1$   
 P-12.  $z = i + (2-i)t, \quad 0 \leq t \leq 1.$   
 P-13.  $z(t) = 2 - i + 2e^{it}, \quad (0 \leq t \leq \pi)$   
 P-14.  $z = e^{-it}, \quad (0 \leq t \leq 2\pi)$   
 P-15.  $z(t) = 2 \cosh t + i \sinh t, \quad (-\infty < t < \infty)$   
 P-16.  $z(t) = 3 \cos t + 2i \sin t, \quad (0 \leq t \leq 2\pi)$   
 P-17.  $z(t) = -(a+ib) + re^{-it}, \quad (0 \leq t \leq 2\pi)$   
 P-18.  $z(t) = t + \frac{1}{2}i, \quad (1 \leq t \leq 5)$   
 P-19.  $z(t) = t + (1 - \frac{1}{2}t^2)i, \quad (-2 \leq t \leq 2)$

- P-20.  $z(t) = 2 - i + \sqrt{5} \cos t + 2i \sin t, (0 \leq t \leq 2\pi)$   
 P-21.  $4 + 4i$  P-22.  $4 + \frac{22}{3}i$  P-23. 0  
 P-24. 0 P-25.  $-\sinh 1$  P-26.  $2\pi$   
 P-27.  $-1 + 0.6558i$  P-28.  $-10\pi$   
 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,  $\pi$  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,  $\frac{1}{2}\pi$ .  
 P-19. Yes, 0 P-21.  $2\pi$   
 P-22.  $\frac{1}{2}\pi$  P-23.  $4\pi$  P-24.  $2\pi$   
 P-25. 0 P-26. 0 P-27. 0  
 P-28. 0 P-29. 0 P-30.  $-4\pi$ .

**PROBLEM SET 14.3**

- P-1.  $-\pi$  P-2.  $\pi$ .  
 P-3. 0 P-4.  $-\pi$ .  
 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.  $8\pi$  P-14.  $\frac{7}{4}\pi(-2+i)$   
 P-15.  $-60.739i$  P-16.  $-4.872$   
 P-17.  $1.089 + 2.467i$  P-18.  $2.8485i$   
 P-19.  $\pi^{2i}$  P-20. 0

**PROBLEM SET 14.4**

- P-1.  $-\frac{1}{2}\pi$  P-2.  $\frac{1}{2}\pi$   
 P-3.  $\frac{2\pi i}{(n-1)!}$  P-4. 0  
 P-5.  $9.845i$  P-6.  $-\frac{22}{3}\pi$   
 P-7.  $\frac{2\pi i}{(2n)!}(-1)^n$  P-8.  $\pi(\sinh(1) - 6)$   
 P-9.  $-2\pi^2 i$  P-10.  $2\pi(-5+8i)$   
 P-11.  $2.82i$  P-12.  $-\frac{9\pi}{2e^\pi}$ .  
 P-13.  $\pi$  P-14.  $-\frac{1}{2}\pi(3+2\ln(-1))$ .  
 P-15. 0 P-16.  $\pi^n(4+\frac{1}{2}i)$ .  
 P-17. 0 P-18.  $\frac{2\pi i}{(n-1)!} \begin{cases} 1 & \text{if } n \text{ is even} \\ 0 & \text{if } n \text{ is odd} \end{cases}$   
 P-19.  $-\frac{9\pi}{64\sqrt{2}}(1+i)$ .

**CHAPTER 14 REVIEW PROBLEMS**

- P-21.  $2.468$  P-22. 0  
 P-23.  $\frac{1}{2}\pi$  P-24.  $\frac{\pi}{2} + i 2\frac{\pi}{3}$   
 P-25.  $-2\pi^2 i$  P-26.  $\frac{17}{2} + \frac{37}{2}i$ .  
 P-27. 0 P-27. 0  
 P-28. 0 P-29.  $-4\pi$ .  
 P-30.  $0.16626 + i0.988897$

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**James Albert Richards**



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