

23. 0 25. $2\pi i \cosh 1$ 27. $-4i$ 29. $6i$

31. $-\frac{\pi}{3} + \frac{\pi}{3}i$

Exercises 19.6, Page 908

1. $4\pi/\sqrt{3}$ 3. 0 5. $\pi/\sqrt{3}$ 7. $\pi/4$

9. $\pi/6$ 11. π 13. $\pi/16$ 15. $3\pi/8$

17. $\pi/2$ 19. $\pi/\sqrt{2}$ 21. πe^{-1} 23. πe^{-1}

25. πe^{-1} 27. $\frac{\pi e^{-\sqrt{2}}}{2\sqrt{2}} (\cos \sqrt{2} + \sin \sqrt{2})$

29. $-\frac{\pi}{8} \left(\frac{e^{-1}}{3} - e^{-1} \right)$

Chapter 19 in Review, Page 908

1. true 3. false 5. true 7. true

9. $\frac{1}{\pi}$ 11. $|z - \eta| = \sqrt{3}$

13. $1 + \sum_{k=1}^{\infty} \frac{(\sqrt{2})^k \cos(k\pi/4)}{k!} z^k$

15. $-\frac{z}{z^2} + \frac{1}{2!z^2} + \frac{z}{3!z} - \frac{1}{4!} - \frac{z}{5!}z + \dots$

17. $\dots + \frac{1}{5!(z-i)^5} - \frac{1}{3!(z-i)^3} + (z-i)$

19. $\frac{z}{3} + \frac{8}{9}z + \frac{26}{27}z^2 + \dots$

$$\dots - \frac{1}{z+i} - \frac{1}{z-i} - \frac{1}{z} - \frac{1}{3} - \frac{z}{3^2} - \frac{z^2}{3^3} - \dots$$

$$\frac{z}{z+i} + \frac{8}{z+i} + \frac{26}{z+i} + \dots$$

$$\frac{1}{z-1} - \frac{1}{2} - \frac{z-1}{2^2} - \frac{(z-1)^2}{2^3} - \dots$$

21. $\frac{404\pi}{81}i$ 23. $\frac{2\pi}{\sqrt{3}}i$

25. $(\pi + \pi e^{-2} \cos 2)i$ 27. $-\pi i$

29. $\frac{9\pi^2 + 2}{\pi^2}i$ 31. $7\pi/50$

33. $\pi \left(\frac{90 - 52\sqrt{3}}{12 - 7\sqrt{3}} \right)$

Exercises 20.1, Page 915

1. the line $v = -u$ 3. the line $v = 2$

5. open line segment from 0 to πi

7. the ray $\theta = \frac{1}{2}i_0$ 9. the line $u = 1$

11. the fourth quadrant

13. the wedge $\pi/4 \leq \text{Arg } w \leq \pi/2$

15. the circle with center $w = 4i$ and radius $r = 1$

17. the strip $-1 \leq u \leq 0$

19. the wedge $0 \leq \text{Arg } w \leq 3\pi/4$

21. $w = -R(z-i) = -(z-i)$

23. $w = 2(z-1)$ 25. $w = -z^2$

27. $w = e^{3/2}$ 29. $w = -z + i$

Exercises 20.2, Page 920

- conformal at all points except $z = \pm i$
- conformal at all points except $z = \pi i \pm 2\pi n i$
- conformal at all points outside the interval $[-1, 1]$ on the x -axis

7. The image is the region shown in Figure 20.2.2(b). A horizontal segment $z(t) = t + ib$, $0 < t < \pi$, is mapped onto the lower or upper portion of the ellipse

$$\frac{u^2}{\cosh^2 b} + \frac{v^2}{\sinh^2 b} = 1$$

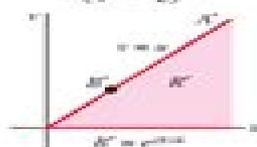
according to whether $b > 0$ or $b < 0$.

9. The image of the region is the wedge $0 \leq \text{Arg } w \leq \pi/4$. The image of the line segment $[-\pi/2, \pi/2]$ is the union of the line segments joining $e^{i\pi/4}$ to 0 and 0 to 1.

11. $w = \cos(\pi z/2)$ using H-4



13. $w = \left(\frac{1+z}{1-z} \right)^{1/2}$ using H-5 and $w = z^{1/2}$



15. $w = \left(\frac{e^{i\pi z} + e^{-i\pi z}}{e^{i\pi z} - e^{-i\pi z}} \right)^{1/2}$ using H-6 and $w = z^{1/2}$



17. $w = \sin(-i) \sin z = \pi/2$; $A'B'$ is the real interval $(-\infty, -1]$.

19. $u = \frac{1}{\pi} \text{Arg}(z^4)$ or $w(r, \theta) = \frac{4}{\pi} \theta$

21. $u = \frac{1}{\pi} \text{Arg} \left(i \frac{1-z}{1+z} \right) = \frac{1}{\pi} \tan^{-1} \left(\frac{1-x^2-y^2}{2y} \right)$

23. $u = \frac{1}{\pi} [\text{Arg}(z^2 - 1) - \text{Arg}(z^2 + 1)]$

25. $u = \frac{10}{\pi} [\text{Arg}(e^{\pi i} - 1) - \text{Arg}(e^{\pi i} + 1)]$

Exercises 20.3, Page 927

1. $f(0) = \infty$, $f(1) = i$, $f(\infty) = 0$; $\text{Im } f = 1$ and the line $v = \frac{1}{2}$; $\text{Im } f \geq 1$

3. $f(0) = -1$, $f(1) = \infty$, $f(\infty) = 1$; the line $u = 0$ and the circle $bu - 1i = 2$; the half-plane $u \leq 0$

5. $S^{-1}(w) = \frac{-w-1}{-w+i} = \frac{w+1}{w-i}$

$$S^{-1}(f(z)) = \frac{(1+i)z-1}{2z+i}$$

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Peter V. O'Neil



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