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

9. $\pi i/6$ **11.** πi **13.** $\pi i/16$ **15.** $3\pi i/8$

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

25. $\pi i e^{-3}$ **27.** $\dfrac{\pi i e^{-\sqrt{2}}}{2\sqrt{2}}(\cos\sqrt{2} + \sin\sqrt{2})$

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

Chapter 19 in Review, Page 908

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

9. $\dfrac{1}{\pi}$ **11.** $|z - i| = \sqrt{3}$

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

15. $-\dfrac{i}{z^2} + \dfrac{1}{2!z^2} + \dfrac{i}{3!z} - \dfrac{1}{4!} - \dfrac{i}{5!}z + \cdots$

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

19. $\dfrac{2}{3} + \dfrac{8}{9}z + \dfrac{26}{27}z^2 + \cdots;$

$\cdots - \dfrac{1}{z^3} - \dfrac{1}{z^2} - \dfrac{1}{z} - \dfrac{1}{3} - \dfrac{z}{3^2} - \dfrac{z^2}{3^3} - \cdots;$

$\dfrac{2}{z^2} + \dfrac{8}{z^3} + \dfrac{26}{z^4} + \cdots;$

$\dfrac{1}{z-1} - \dfrac{1}{2} - \dfrac{z-1}{2^2} - \dfrac{(z-1)^2}{2^3} - \cdots$

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

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

29. $\dfrac{9\pi^3 + 2}{\pi^2}i$ **31.** $7\pi i/50$

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

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 $\theta = \frac{1}{4}\theta_0$ **9.** the line $u = 1$

11. the fourth quadrant

13. the wedge $\pi/4 \le \operatorname{Arg} w \le \pi/2$

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

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

19. the wedge $0 \le \operatorname{Arg} w \le 3\pi/4$

21. $w = -i(z - i) = -iz - 1$

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

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

Exercises 20.2, Page 920

1. conformal at all points except $z = \pm 1$

3. conformal at all points except $z = n\pi i \pm 2n\pi i$

5. conformal at all points outside the interval $[-1, 1]$ on the x-axis

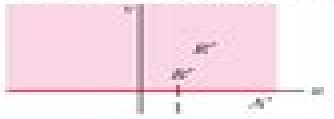
7. The image is the region shown in Figure 20.2.2(b). A horizontal segment $z(t) = t + ib$, $0 < t < \pi$, is mapped onto the lower or upper portion of the ellipse

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

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

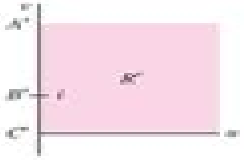
9. The image of the region is the wedge $0 \le \operatorname{Arg} w \le \pi/4$. The image of the line segment $[-\pi/2, \pi/2]$ is the union of the line segments joining $e^{-\pi/2}$ to 0 and 0 to 1.

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



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

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



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

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

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

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

25. $u = \dfrac{10}{\pi}[\operatorname{Arg}(e^{\pi z} - 1) - \operatorname{Arg}(e^{\pi z} + 1)]$

Exercises 20.3, Page 927

1. $T(0) = \infty$, $T(1) = i$, $T(\infty) = 0$; $|w| = 1$ and the line $v = \frac{1}{2}$; $|w| \ge 1$

3. $T(0) = -1$, $T(1) = \infty$, $T(\infty) = 1$; the line $u = 0$ and the circle $|w - 1| = 2$; the half-plane $u \le 0$

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

$S^{-1}(T(z)) = \dfrac{(1 + i)z - 1}{2z + i}$

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