

Honors Precalculus – Sullivan & Sullivan
Chapter 7

Section	Activities/Resources	Assignment
7.1		1, 7, 13, 19, 25, 37, 55, 61, 67
7.1		2, 14, 20, 32, 38, 56, 62, 68
7.2		1-28 by 3s, 30
7.3		1-22 by 3s
7.5	One-to-One Functions, Inverse Functions (Section 5.1)	1-58 by 3s
7.6	Quiz 7.1 to 7.3	1-28 by 3s
7.6		29-65 eoo
7.6		30-70 eoe
7.7		1-31 by 3s, 33, 34, 36
7.8		1-49 by 3s (omit 16)
7.8		2-50 by 3s, 55 (omit 17)
Review	Quiz 7.5 to 7.7	2, 6, 10, 16, 20, 24, 36, 42, 56, 72, 82, 90, 94, 100
Review		1, 15, 19, 33, 49, 55, 61, 63, 67, 71, 81, 93, 97
8.1	Chapter 7 Test	11-26 by 3, 50, 56

7.2 4. $-2 - \sqrt{3}$ 10. $-2 - \sqrt{3}$ 16. $\frac{\sqrt{3}}{2}$ 22. $\frac{\sqrt{3}}{2}$ 28. a) $\frac{-2\sqrt{6}+1}{6}$ b) $\frac{2\sqrt{2}+\sqrt{3}}{6}$ c) $\frac{-2\sqrt{6}-1}{6}$ d) $\frac{-9\sqrt{3}-8\sqrt{2}}{5}$

30a) $\frac{-\sqrt{15}}{4}$ b) $\frac{-3\sqrt{5}-1}{8}$ c) $\frac{1+3\sqrt{5}}{8}$ d) $\frac{-8-\sqrt{15}}{-7}$

7.3 4 a) $\frac{4}{5}$ b) $\frac{3}{5}$ c) $\sqrt{\frac{5+2\sqrt{5}}{10}}$ d) $-\sqrt{\frac{5+2\sqrt{5}}{10}}$ 10. a) $\frac{-\sqrt{3}}{2}$ b) $\frac{-1}{2}$ c) $\frac{1}{2}$ d) $\frac{-\sqrt{3}}{2}$ 16. $\sqrt{3-2\sqrt{2}}$ 22. $\frac{\sqrt{2-\sqrt{2}}}{2}$

7.5 4. π 10. $\frac{-\pi}{3}$ 16. $\frac{\pi}{4}$ 22. .93 28. -1.25 34. .20 40. -.12 46. 7.4 52. $\frac{2\pi}{5}$ 58. See calculator

7.6 4. $-\frac{\sqrt{3}}{3}$ 10. $\frac{1}{2}$ 16. $\frac{\pi}{3}$ 22. $-\frac{\sqrt{5}}{2}$ 28. $\frac{2\pi}{3}$

7.6 30. $\frac{\sqrt{3}}{2}$ 36. $\frac{-65}{33}$ 42. $\frac{7}{25}$ 48. $\frac{9}{10}$ 54. $uv - \sqrt{1-u^2}\sqrt{1-v^2}$

7.7 4. $\frac{5\pi}{6}, \frac{7\pi}{6}$ 10. $\frac{3\pi}{8}, \frac{7\pi}{8}, \frac{11\pi}{8}, \frac{15\pi}{8}$ 16. $\frac{7\pi}{4}$ 22. $\frac{\pi}{2}$ 28. .46, 3.61 34. 27.5° 36. 1.56

7.8 2. $\frac{3\pi}{2}, \frac{\pi}{2}$ 8. $\frac{3\pi}{4}, \frac{7\pi}{4}$ 14. $\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}, \frac{3\pi}{2}, \frac{\pi}{2}$ 20. π 26. no solution 32. $\frac{5\pi}{4}$ 38. -.82,.82 44. -1.26 50. .31

Review 36. $\frac{\sqrt{2}-\sqrt{6}}{4}$ 42. a) $-\frac{33}{65}$ b) $\frac{56}{65}$ c) $\frac{63}{65}$ d) $-\frac{33}{56}$ e) $\frac{24}{25}$ f) $-\frac{119}{169}$ g) $-\frac{2\sqrt{13}}{13}$ h) $\frac{3\sqrt{10}}{10}$ 56. $-\frac{\pi}{3}$ 72. $\frac{33}{65}$

82. $\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$ 90. $\frac{\pi}{6}, \frac{5\pi}{6}, \frac{3\pi}{2}$ 94. $\frac{\pi}{3}, \frac{5\pi}{3}, \pi$ 100. .1.89,3.07