

Unit 9 Review Key

PreCalc Book:

16. $\sec x + 1$

20. 1

38. $x = \frac{3\pi}{4} + 2\pi n, x = \frac{7\pi}{4} + 2\pi n$

54. $0, \frac{\pi}{3}, \frac{2\pi}{3}, \pi, \frac{4\pi}{3}, \frac{5\pi}{3}$

68. $\frac{-\sqrt{3}+1}{1+\sqrt{3}}$

80. $\frac{4}{5}$

Additional Problems:

1. $\cos \theta$

2. $\csc^2 \theta$

3. $\frac{-\sqrt{2}+\sqrt{6}}{4}$

4. $\frac{297}{425}$

5. $\frac{120}{169}$

6. $-\frac{\sqrt{2-\sqrt{2}}}{2}$

7. $x = \frac{\pi}{4} + 2\pi n, x = \frac{5\pi}{4} + 2\pi n$

8. $x = \frac{7\pi}{6} + 2\pi n$

$x = \frac{11\pi}{6} + 2\pi n$

$x = \frac{3\pi}{2} + 2\pi n$

9. $\frac{2\pi}{3}$

10. π