

SM3 9.2 odd answers

1. $\theta = 300^\circ, \frac{5\pi}{3}$

$\sin \theta = -\frac{\sqrt{3}}{2}, \cos \theta = \frac{1}{2}, \tan \theta = -\sqrt{3}$

$\csc \theta = -\frac{2\sqrt{3}}{3}, \sec \theta = 2, \cot \theta = -\frac{\sqrt{3}}{3}$

3. $\theta = 270^\circ, \frac{3\pi}{2}$

$\sin \theta = -1, \cos \theta = 0, \tan \theta = \text{undefined}$

$\csc \theta = -1, \sec \theta = \text{undefined}, \cot \theta = 0$

5. $\theta = 0^\circ, 0$

$\sin \theta = 0, \cos \theta = 1, \tan \theta = 0$

$\csc \theta = \text{undefined}, \sec \theta = 1, \cot \theta = \text{undefined}$

7. $\frac{\sqrt{3}}{3}$

9. $\frac{\sqrt{2}}{2}$

11. $\frac{\sqrt{3}}{2}$

13. 1

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

17. 1

19. $-\frac{\sqrt{3}}{2}$

21. undefined

23. $-\frac{1}{2}$