

SM3H 6.6 odd answers

1. $30^\circ, 330^\circ$

3. $60^\circ, 240^\circ$

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

7. $\frac{\pi}{3}, \frac{2\pi}{3}$

9. $\alpha = 45^\circ + 360^\circ k, \alpha = 315^\circ + 360^\circ k$

11. $\alpha = 135^\circ + 180^\circ k$

13. $\alpha = 45^\circ + 360^\circ k, \alpha = 135^\circ + 360^\circ k$

15. $x = \frac{3\pi}{2} + 2\pi k$

17. $x = \frac{\pi}{3} + 2\pi k, x = \frac{5\pi}{3} + 2\pi k$

19. $x = \frac{\pi}{6} + \pi k$

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

23. $x = \frac{\pi}{2} + \pi k$

25. $x = 0 + \pi k$

27. $\alpha = 29.2^\circ, \alpha = 330.8^\circ$

29. $\alpha = 79.5^\circ, \alpha = 259.5^\circ$

31. $\alpha = 0.85, \alpha = 5.43$

33. $\alpha = 0.39, \alpha = 2.75$

35. $\alpha \approx 56.40^\circ$

37. $m = \sin^{-1}\left(\frac{t-2}{-6}\right)$ or $m = \sin^{-1}\left(\frac{2-t}{6}\right)$

39. $\alpha \approx 23.58^\circ + 360^\circ k, \alpha \approx 156.42^\circ + 360^\circ k$

41. $3\pi \text{ in}^2$