

SM2H 9.3 Using the Unit Circle Answers

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|---------------------|---------------------------|--|
| 1. j | 26. <i>Negative</i> | 50. 1 |
| 2. $\frac{b}{a}$ | 27. <i>Positive</i> | 51. $-\frac{1}{2}$ |
| 3. p | 28. <i>Undefined</i> | 52. -2 |
| 4. m | 29. 1 | 53. $30^\circ, 150^\circ$ |
| 5. $\frac{1}{c}$ | 30. $\frac{\sqrt{2}}{2}$ | 54. $30^\circ, 330^\circ$ |
| 6. h | 31. $\frac{\sqrt{3}}{2}$ | 55. $60^\circ, 240^\circ$ |
| 7. p | 32. -2 | 56. $315^\circ, 225^\circ$ |
| 8. $\frac{1}{f}$ | 33. <i>Undefined</i> | 57. $0^\circ, 180^\circ$ |
| 9. $\frac{k}{l}$ | 34. 0 | 58. $90^\circ, 270^\circ$ |
| 10. g | 35. $\sqrt{2}$ | 59. $-\sqrt{3}$ |
| 11. $\frac{l}{k}$ | 36. 1 | 60. $\sqrt{2}$ |
| 12. b | 37. 1 | 61. $\frac{4}{3}$ |
| 13. d | 38. $-\frac{1}{2}$ | 62. $-\frac{5}{4}$ |
| 14. $\frac{h}{g}$ | 39. $\sqrt{2}$ | 63. <i>Quadrant 1</i> |
| 15. $\frac{1}{m}$ | 40. $-\frac{\sqrt{3}}{3}$ | 64. <i>Quadrant 3</i> |
| 16. K | 41. $\frac{\sqrt{2}}{2}$ | 65. $\sin\theta = \frac{5\sqrt{106}}{106}$ |
| 17. <i>Neither</i> | 42. $\frac{\sqrt{3}}{2}$ | $\cos\theta = \frac{-9\sqrt{106}}{106}$ |
| 18. <i>Positive</i> | 43. $-\sqrt{3}$ | $\tan\theta = \frac{-5}{9}$ |
| 19. <i>Negative</i> | 44. 0 | $\csc\theta = \frac{\sqrt{106}}{5}$ |
| 20. <i>Neither</i> | 45. 1 | $\sec\theta = \frac{-\sqrt{106}}{9}$ |
| 21. <i>Neither</i> | 46. $\frac{\sqrt{3}}{3}$ | $\cot\theta = \frac{-9}{5}$ |
| 22. <i>Positive</i> | 47. $-\frac{\sqrt{3}}{3}$ | |
| 23. <i>Negative</i> | 48. 0 | |
| 24. <i>Positive</i> | 49. $\frac{1}{2}$ | |
| 25. <i>Negative</i> | | |