



Practice Masters Level A

13.2 Angles of Rotation

AA2 Monday Week 15

For each angle, find all coterminal angles such that $-360^\circ < \theta < 360^\circ$.

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|----------------------|----------------------|----------------------|
| 1. 20° _____ | 2. 55° _____ | 3. 100° _____ |
| 4. 179° _____ | 5. 240° _____ | 6. 270° _____ |
| 7. 330° _____ | 8. 400° _____ | 9. -80° _____ |

Find the reference angle.

- | | | |
|-----------------------|------------------------|-----------------------|
| 10. 130° _____ | 11. 65° _____ | 12. 200° _____ |
| 13. 290° _____ | 14. 355° _____ | 15. 112° _____ |
| 16. -40° _____ | 17. -100° _____ | 18. 400° _____ |

Find the exact value of the six trigonometric functions of θ given each point on the terminal side of θ in standard position.

- | | | |
|-----------------------|-----------------------|-----------------------|
| 19. $(2, 2)$ | 20. $(3, 5)$ | 21. $(-4, 2)$ |
| $\sin \theta =$ _____ | $\sin \theta =$ _____ | $\sin \theta =$ _____ |
| $\cos \theta =$ _____ | $\cos \theta =$ _____ | $\cos \theta =$ _____ |
| $\tan \theta =$ _____ | $\tan \theta =$ _____ | $\tan \theta =$ _____ |
| $\csc \theta =$ _____ | $\csc \theta =$ _____ | $\csc \theta =$ _____ |
| $\sec \theta =$ _____ | $\sec \theta =$ _____ | $\sec \theta =$ _____ |
| $\cot \theta =$ _____ | $\cot \theta =$ _____ | $\cot \theta =$ _____ |

Given the quadrant of θ in standard position and a trigonometric function value of θ , find exact values for the indicated functions.

- | | | |
|---|---|---|
| 22. II, $\sin \theta = \frac{1}{2}$; $\cos \theta$ | 23. II, $\tan \theta = \frac{-2}{5}$; $\sin \theta$ | 24. IV, $\cos \theta = \frac{2}{3}$; $\sin \theta$ |
| _____ | _____ | _____ |
| 25. I, $\tan \theta = \frac{5}{8}$; $\cos \theta$ | 26. III, $\sin \theta = \frac{-4}{9}$; $\tan \theta$ | 27. IV, $\tan \theta = \frac{-5}{11}$; $\cos \theta$ |
| _____ | _____ | _____ |

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