

Name _____

Trig Chapter 9 Test PART 1-

- ____1. In which quadrant is 230° ?
A. I B. II C. III D. IV
- ____2. In which quadrant is -10° ?
A. I B. II C. III D. IV
- ____3. In which quadrant is 2300° ?
A. I B. II C. III D. IV
- ____4. In which quadrant is $\frac{7\pi}{4}$?
A. I B. II C. III D. IV
- ____5. In which quadrant is $-\frac{4\pi}{5}$?
A. I B. II C. III D. IV
- ____6. In which quadrant is $\frac{14\pi}{3}$?
A. I B. II C. III D. IV
- ____7. Are 40° and 760° coterminal?
A. Yes B. No
- ____8. Are $\frac{\pi}{5}$ and $\frac{9\pi}{5}$ coterminal?
A. Yes B. No
- ____9. Are -280° and 440° coterminal?
A. Yes B. No
- ____10. Are $-\frac{3\pi}{2}$ and $\frac{7\pi}{2}$ coterminal?
A. Yes B. No
- ____11. Are 250° and 14310° coterminal?
A. Yes B. No
- ____12. Are $\frac{17\pi}{9}$ and $\frac{125\pi}{9}$ coterminal?
A. Yes B. No
- ____13. Which of the following is the reciprocal of $\cos \theta$?
A. $\cot \theta$ B. $\sec \theta$ C. $\csc \theta$ D. $\csc \theta$ E. None of the above

- _____14. Which is equal to $\frac{\textit{adjacent}}{\textit{opposite}}$?
 A. $\csc \theta$ B. $\sec \theta$ C. $\tan \theta$ D. $\csc \theta$ E. None of the above
- _____15. Are 460° and $\frac{24\pi}{9}$ the same thing?
 A. Yes B. No
- _____16. When $\cos \theta = \frac{3}{5}$ and the terminal side of θ is in the 1st quadrant, what is $\sin \theta$?
 A. $\frac{5}{3}$ B. $\frac{3}{4}$ C. $\frac{4}{5}$ D. None of the above
- _____17. When $\cos \theta = \frac{12}{13}$ and the terminal side of θ is in the 1st quadrant, what is $\cos \theta$?
 A. $\frac{5}{13}$ B. $\frac{13}{12}$ C. $\frac{5}{12}$ D. None of the above
- _____18. When $\cos \theta = \frac{12}{13}$ and the terminal side of θ is in the 1st quadrant, what is $\tan \theta$?
 A. $\frac{5}{13}$ B. $\frac{13}{12}$ C. $\frac{5}{12}$ D. None of the above
- _____19. When $\cos \theta = \frac{40}{41}$ and the terminal side of θ is in the 1st quadrant, what is $\sec \theta$?
 A. $\frac{41}{40}$ B. $\frac{9}{41}$ C. $\frac{41}{9}$ D. None of the above
- _____20. When $\cos \theta = \frac{8}{17}$ and the terminal side of θ is in the 1st quadrant, what is $\tan \theta$?
 A. $\frac{8}{15}$ B. $\frac{15}{17}$ C. $\frac{8}{17}$ D. None of the above
- _____21. When $\cos \theta = \frac{8}{17}$ and the terminal side of θ is in the 1st quadrant, what is $\sin \theta$?
 A. $\frac{8}{15}$ B. $\frac{15}{17}$ C. $\frac{8}{17}$ D. None of the above
- _____22. When $\tan \theta = \frac{40}{9}$ and the terminal side of θ is in the 1st quadrant, what is $\sin \theta$?
 A. $\frac{40}{41}$ B. $\frac{41}{9}$ C. $\frac{9}{41}$ D. None of the above

- _____23. What is the $\cos \theta$ if the initial side of the angle is on the x-axis (0°) and the terminal side goes through the point (4, 3)?
- A. $\frac{3}{4}$ B. $\frac{3}{5}$ C. $\frac{4}{5}$ D. None of the above
- _____24. What is the $\tan \theta$ if the initial side of the angle is on the x-axis (0°) and the terminal side goes through the point (3, 4)?
- A. $\frac{3}{4}$ B. $\frac{3}{5}$ C. $\frac{4}{5}$ D. None of the above
- _____25. What is the $\tan \theta$ if the initial side of the angle is on the x-axis (0°) and the terminal side goes through the point (5, 12)?
- A. $\frac{5}{12}$ B. $\frac{5}{13}$ C. $\frac{12}{13}$ D. None of the above