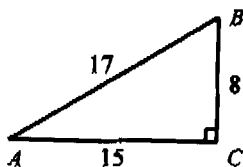


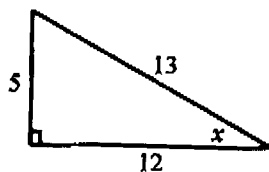
TRIGONOMETRY PRE-TEST / POST-TEST

1. Write $\sin A$ as a fraction in lowest terms.

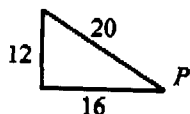


2. Write $\cos x$ as a fraction in lowest terms.

[A] $\frac{12}{13}$ [B] $\frac{5}{12}$ [C] $\frac{5}{13}$ [D] $2\frac{2}{5}$



3. Write $\cos P$ as a fraction in lowest terms.



Evaluate without using a calculator.

4. $\csc 45^\circ$
5. $\sin 30^\circ$
6. $\cot 60^\circ$
7. $\cos 60^\circ$
8. $\sec 30^\circ$
9. $\tan 60^\circ$

Use a calculator. Round to three decimal places.

10. $\cos 12^\circ$

11. $\tan 69^\circ$

12. $\sin 12^\circ$

13. $\sec 27^\circ$

14. $\csc 20^\circ$

Find one positive angle and one negative angle that are coterminal with the given angle.

15. 3°

16. -24°

17. $\frac{3\pi}{4}$

18. $-\frac{5\pi}{3}$

19. Convert 2° to radians.

20. Convert 120° to radians. [A] $\frac{3}{2}\pi$ [B] $\frac{2}{3}\pi$ [C] $\frac{4}{3}\pi$ [D] $\frac{3}{4}\pi$

21. Convert $\frac{3}{20}\pi$ to degrees.

22. Convert $\frac{1}{9}\pi$ to degrees. [A] 40° [B] 1620° [C] 20° [D] 10°

23. Which of the angles are coterminal?
 $10^\circ, 80^\circ, 370^\circ$

24. Which of the angles are coterminal?
 30° , -330° , -30°
25. Find the reference angle for 211° .
26. Find the reference angle for -275° .
27. Find the reference angle for $\frac{5\pi}{6}$.
28. The point $(-3, 3)$ is on the terminal side of an angle θ . Find $\cos\theta$.
29. The point $(-1, \sqrt{3})$ is on the terminal side of an angle θ . Find $\cos\theta$.
30. Triangle ABC is a right triangle. Find $\sin A$ and the measure of $\angle A$ to the nearest degree.

