

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Convert the angle to degrees, minutes, and seconds.

- 1) 28.34° 1) _____
 A) $28^\circ 20' 24''$ B) $28^\circ 20' 14''$ C) $28^\circ 30' 14''$ D) $28^\circ 30' 24''$

Convert the angle to decimal degrees and round to the nearest hundredth of a degree.

- 2) $344^\circ 4' 55''$ 2) _____
 A) 344.14° B) 344.09° C) 344.08° D) 344.04°

Convert the degree measure to radians. Leave answer as a multiple of π .

- 3) 30° 3) _____
 A) $\frac{\pi}{8}$ B) $\frac{\pi}{7}$ C) $\frac{\pi}{5}$ D) $\frac{\pi}{6}$

- 4) 288° 4) _____
 A) $\frac{8\pi}{5}$ B) $\frac{9\pi}{5}$ C) $\frac{16\pi}{5}$ D) $\frac{4\pi}{5}$

Convert the radian measure to degrees. Round to the nearest hundredth if necessary.

- 5) $-\frac{11\pi}{2}$ 5) _____
 A) -991° B) -990.5° C) -990° D) -989.5°

- 6) $-\frac{35}{9}\pi$ 6) _____
 A) $-1400\pi^\circ$ B) -700° C) -350° D) -12.21°

Convert the degree measure to radians, correct to four decimal places. Use 3.1416 for π .

- 7) $350^\circ 46'$ 7) _____
 A) 6.112 B) 6.102 C) 6.092 D) 6.122

- 8) $-22^\circ 27'$ 8) _____
 A) -0.3718 B) -0.3918 C) -0.3618 D) -0.3818

- 9) 85.8839° 9) _____
 A) 1.5990 B) 1.7990 C) 1.6990 D) 1.4990

Convert the radian measure to degrees. Give answer using decimal degrees to the nearest hundredth. Use 3.1416 for π .

- 10) -5.7 10) _____
 A) -653.18° B) -652.78° C) -326.59° D) -326.99°

Complete the sentence so the result is an identity. Let x be any real number.

- 11) $\underline{\hspace{1cm}} + \sin^2 x = 1$ 11) $\underline{\hspace{2cm}}$
 A) $\sin^2 x$ B) $\tan^2 x$ C) $\csc^2 x$ D) $\cos^2 x$
- 12) $\underline{\hspace{1cm}} + \tan^2 x = \sec^2 x$ 12) $\underline{\hspace{2cm}}$
 A) $\cos^2 x$ B) -1 C) 1 D) $\sin^2 x$
- 13) $1 + \underline{\hspace{1cm}} = \csc^2 x$ 13) $\underline{\hspace{2cm}}$
 A) $\sin^2 x$ B) $\sec^2 x$ C) $\cos^2 x$ D) $\cot^2 x$
- 14) $\underline{\hspace{1cm}} = \frac{1}{\sin x}$ 14) $\underline{\hspace{2cm}}$
 A) $\sec x$ B) $\csc x$ C) $\cot x$ D) $\tan x$
- 15) $\frac{\sin x}{\tan x} = \underline{\hspace{1cm}}$ 15) $\underline{\hspace{2cm}}$
 A) $\cot x$ B) $\cos x$ C) $\sec x$ D) $\csc x$
- 16) $\sin x = (\underline{\hspace{1cm}})(\cos x)$ 16) $\underline{\hspace{2cm}}$
 A) $\cot x$ B) $\sec x$ C) $\tan x$ D) $\csc x$
- 17) $\cos x = (\cot x)(\underline{\hspace{1cm}})$ 17) $\underline{\hspace{2cm}}$
 A) $\sin x$ B) $\tan x$ C) $\sec x$ D) $\csc x$

Express the function as a trigonometric function of x .

- 18) $\cos 4x$ 18) $\underline{\hspace{2cm}}$
 A) $\cos^4 x - 6 \sin^2 x \cos^2 x + \sin^4 x$ B) $\cos^3 x - 3 \sin^2 x \cos x$
 C) $4 \sin x \cos^3 x - 4 \sin^3 x \cos x$ D) $3 \sin x - 4 \sin^3 x$
- 19) $\sin 4x$ 19) $\underline{\hspace{2cm}}$
 A) $4 \sin x \cos^3 x - 4 \sin^3 x \cos x$ B) $1 - 8 \sin^2 x \cos^2 x$
 C) $3 \sin x - 4 \sin^3 x$ D) $\cos^3 x - 3 \sin^2 x \cos x$

Answer Key

Testname: ACTIVITY 0

- 1) A
- 2) C
- 3) D
- 4) A
- 5) C
- 6) B
- 7) D
- 8) B
- 9) D
- 10) C
- 11) D
- 12) C
- 13) D
- 14) B
- 15) B
- 16) C
- 17) A
- 18) A
- 19) A