NOVA SCOTIA PRE-CALCULUS 12 · UNIT D · 25 QUESTIONS

# Trigonometry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **In a right triangle, for angle A the opposite side is 3 and the adjacent side is 4. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **In a right triangle, for angle A the opposite side is 6 and the adjacent side is 8. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **In a right triangle, for angle A the opposite side is 5 and the adjacent side is 12. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a right triangle, for angle A the opposite side is 9 and the adjacent side is 12. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **In a right triangle, for angle A the opposite side is 8 and the adjacent side is 15. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **In a right triangle, for angle A the opposite side is 12 and the adjacent side is 16. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **In a right triangle, for angle A the opposite side is 7 and the adjacent side is 24. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **In a right triangle, for angle A the opposite side is 10 and the adjacent side is 24. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **In a right triangle, for angle A the opposite side is 20 and the adjacent side is 21. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **In a right triangle, for angle A the opposite side is 15 and the adjacent side is 20. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **In a right triangle, for angle A the opposite side is 9 and the adjacent side is 40. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **In a right triangle, for angle A the opposite side is 12 and the adjacent side is 35. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **In a right triangle, for angle A the opposite side is 18 and the adjacent side is 24. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **In a right triangle, for angle A the opposite side is 30 and the adjacent side is 40. Find tan A to two decimal places.**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An angle in standard position has its vertex at**

A the origin

B the point 1, 0

C any point on a circle

D the terminal side

Understand It with Pulse | Flag a mistake

16 **The initial side of an angle in standard position lies along**

A the positive y axis

B the +x axis

C the -x axis

D the terminal side

Understand It with Pulse | Flag a mistake

17 **A full rotation measures**

A 180 degrees

B 90 degrees

C 360 degrees

D 720 degrees

Understand It with Pulse | Flag a mistake

18 **Coterminal angles differ by**

A 90 degrees

B 180 degrees

C 45 degrees

D a multiple of 360 degrees

Understand It with Pulse | Flag a mistake

**19** **The reference angle is the acute angle between the terminal side and**

- A the x axis
- B the y axis
- C the origin
- D the initial side

Understand It with Pulse | Flag a mistake

**20** **Sin of 30 degrees equals**

- A 1
- B 0.5
- C 0
- D the $\sqrt{3} \div 2$

Understand It with Pulse | Flag a mistake

21 **Cos of 60 degrees equals**

A 1

B 0

C 0.5

D the $\sqrt{3} \div 2$

Understand It with Pulse | Flag a mistake

22 **Sin of 90 degrees equals**

A 0

B 0.5

C -1

D 1

Understand It with Pulse | Flag a mistake

23 **Cos of 0 degrees equals**

A 1

B 0

C 0.5

D -1

Understand It with Pulse | Flag a mistake

24 **Tan of 45 degrees equals**

A 0

B 1

C 0.5

D the square root of 3

Understand It with Pulse | Flag a mistake

25 **The Pythagorean identity states sin² + cos² equals**

A 0

B 2

C 1

D sin + cos

Understand It with Pulse | Flag a mistake

# ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 0.75 | **10.** | 0.75 | **19.** | A |
| **2.** | 0.75 | **11.** | 0.23 | **20.** | B |
| **3.** | 0.42 | **12.** | 0.34 | **21.** | C |
| **4.** | 0.75 | **13.** | 0.75 | **22.** | D |
| **5.** | 0.53 | **14.** | 0.75 | **23.** | A |
| **6.** | 0.75 | **15.** | A | **24.** | B |
| **7.** | 0.29 | **16.** | B | **25.** | C |
| **8.** | 0.42 | **17.** | C | | |
| **9.** | 0.95 | **18.** | D | | |

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