NEW BRUNSWICK FINANCIAL AND WORKPLACE MATHEMATICS 110 · UNIT A · 10 QUESTIONS

Right Triangles and 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 **A right triangle has opposite side 7 and hypotenuse 25. Its sine ratio, rounded to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has legs 20 and 21. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A right triangle has opposite side 12 and adjacent side 35. Its tangent ratio, rounded to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The diagram shows a right triangle with side AB 4, side AC 3, and hypotenuse BC 5. The cosine of angle B is**

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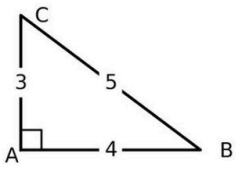

A 3 ÷ 5
B 4 ÷ 5
C 3 ÷ 4
D 5 ÷ 4

A 3 ÷ 5

B 4 ÷ 5

C 3 ÷ 4

D 5 ÷ 4

Understand It with Pulse | Flag a mistake

5 **The diagram shows a right triangle with side AB 4, side AC 3, and hypotenuse BC 5. The sine of angle B is**

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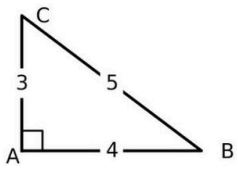

A 3 ÷ 5
B 4 ÷ 5
C 3 ÷ 4
D 4 ÷ 3

A 3 ÷ 5

B 4 ÷ 5

C 3 ÷ 4

D 4 ÷ 3

Understand It with Pulse | Flag a mistake

6 **The diagram shows a right triangle with side AB 12, side AC 5, and hypotenuse BC 13. The tangent of angle B is**

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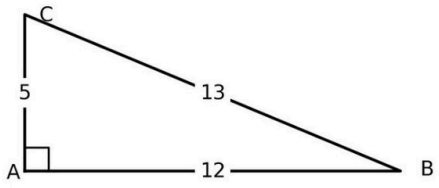

A 12 ÷ 13
B 5 ÷ 13
C 5 ÷ 12
D 12 ÷ 5

A 12 ÷ 13

B 5 ÷ 13

C 5 ÷ 12

D 12 ÷ 5

Understand It with Pulse | Flag a mistake

7 **The Pythagorean theorem applies only to**

- A acute triangles
- B right triangles
- C obtuse triangles
- D all polygons

Understand It with Pulse | Flag a mistake

8 **A right triangle has opposite side 9 and hypotenuse 41. Its sine ratio, rounded to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A right triangle has legs 18 and 24. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A right triangle has opposite side 12 and hypotenuse 37. Its sine ratio, rounded to two decimal places, is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 0.28
2. 29
3. 0.34
4. B
5. A
6. C
7. B
8. 0.22
9. 30
10. 0.32

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