NEWFOUNDLAND AND LABRADOR MATHEMATICS 1201 · UNIT E · 25 QUESTIONS

Linear Functions, Systems 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 **In a right triangle the side opposite an angle is 9 and the adjacent side is 12. The tangent of the angle is**



A 1.25

B 0.25

C 0.75

D 1.75

Understand It with Pulse

Flag a mistake

2 **In a right triangle the side opposite an angle is 8 and the hypotenuse is 17. The sine of the angle is**

- A 0.97
- B 1.47
- C 1.97
- D 0.47

Understand It with Pulse | Flag a mistake

3 **Solve: 3 times a number plus 4 equals 13. The number is**

- A 3
- B 4
- C 2
- D 5

Understand It with Pulse | Flag a mistake

4 **Two numbers sum to 11 and their difference is 7. The larger number is**

- A 10
- B 9
- C 8
- D 11

Understand It with Pulse | Flag a mistake

5 **The right triangle shown has base 4 and height 3. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **What is the meaning of angle of depression?**



A lines that never meet and stay the same distance apart

B the angle below the horizontal to a lower point

C lines that meet at a right angle

D replacing a variable with an equal expression to solve

Understand It with Pulse | Flag a mistake

7 **What is the meaning of angle of elevation?**



A the angle above the horizontal to a higher point

B the angle below the horizontal to a lower point

C lines that never meet and stay the same distance apart

D lines that meet at a right angle

Understand It with Pulse | Flag a mistake

8 **What is the meaning of cosine ratio?**

A opposite side ÷ adjacent side in a right triangle

B adjacent side ÷ hypotenuse in a right triangle

C the longest side of a right triangle

D the angle above the horizontal to a higher point

Understand It with Pulse | Flag a mistake

9 **What is the meaning of hypotenuse?**

A the angle above the horizontal to a higher point

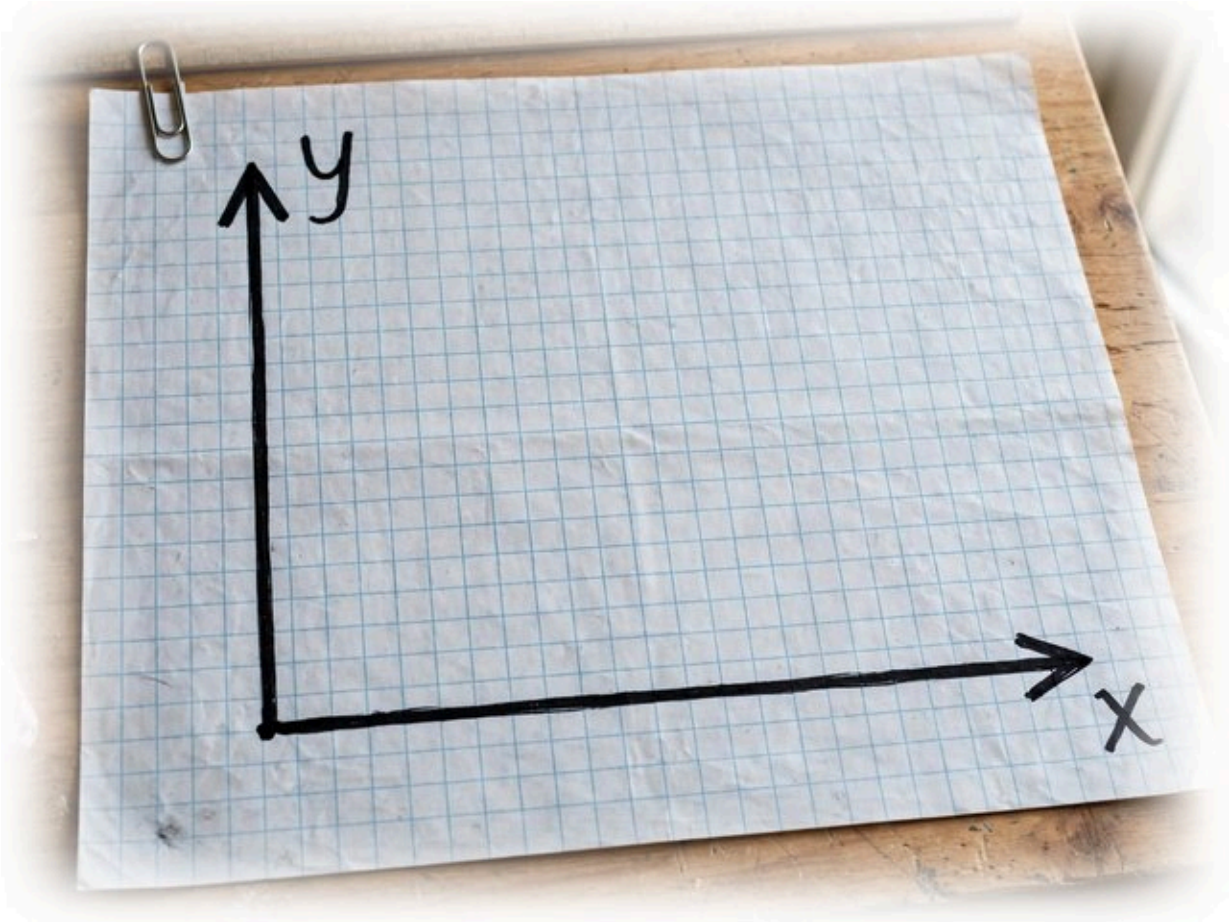
B the angle below the horizontal to a lower point

C lines that never meet and stay the same distance apart

D the longest side of a right triangle

Understand It with Pulse | Flag a mistake

10 **What is the meaning of linear function?**



A two or more equations solved together

B a function whose graph is a straight line

C values that satisfy every equation in a system

D opposite side ÷ hypotenuse in a right triangle

Understand It with Pulse | Flag a mistake

11 **What is the meaning of parallel lines?**

A lines that meet at a right angle

B replacing a variable with an equal expression to solve

C lines that never meet and stay the same distance apart

D a function whose graph is a straight line

Understand It with Pulse | Flag a mistake

12 **What is the meaning of sine ratio?**



A opposite side ÷ hypotenuse in a right triangle

B adjacent side ÷ hypotenuse in a right triangle

C opposite side ÷ adjacent side in a right triangle

D the longest side of a right triangle

Understand It with Pulse | Flag a mistake

13 **What is the meaning of solution of a system?**

A opposite side ÷ hypotenuse in a right triangle

B adjacent side ÷ hypotenuse in a right triangle

C opposite side ÷ adjacent side in a right triangle

D values that satisfy every equation in a system

Understand It with Pulse | Flag a mistake

14 **What is the meaning of system of equations?**

A values that satisfy every equation in a system

B opposite side ÷ hypotenuse in a right triangle

C two or more equations solved together

D adjacent side ÷ hypotenuse in a right triangle

Understand It with Pulse | Flag a mistake

15 **What is the meaning of tangent ratio?**

A the longest side of a right triangle

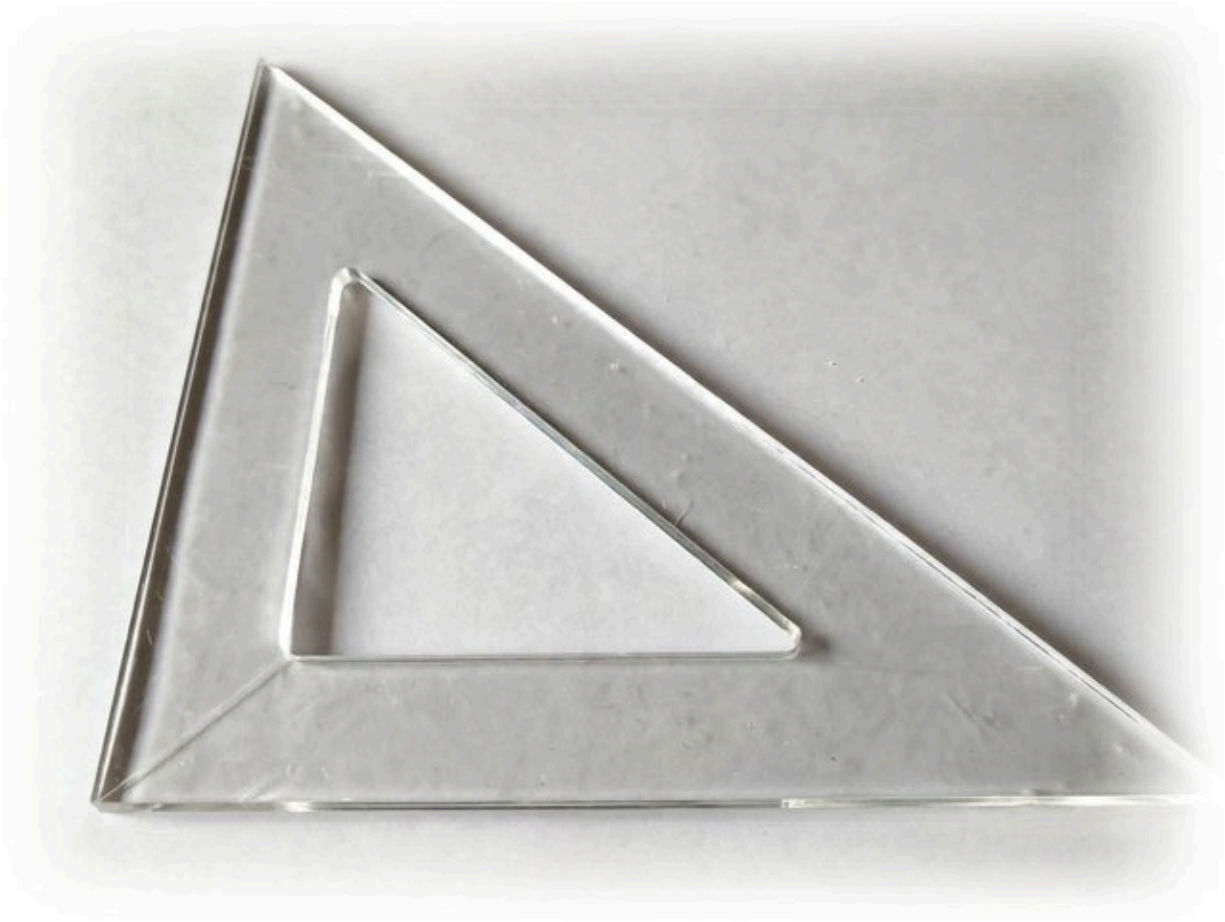
B the angle above the horizontal to a higher point

C opposite side ÷ adjacent side in a right triangle

D the angle below the horizontal to a lower point

Understand It with Pulse | Flag a mistake

16 **Which term matches this description: a function whose graph is a straight line?**



A linear function

B system of equations

C solution of a system

D sine ratio

Understand It with Pulse | Flag a mistake

17 **In a right triangle the side opposite an angle is 8 and the adjacent side is 15. The tangent of the angle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **In a right triangle the side opposite an angle is 12 and the hypotenuse is 20. The sine of the angle is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Solve: 3 times a number plus 8 equals 38. The number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **Two numbers sum to 10 and their difference is 0. The larger number is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The right triangle shown has base 6 and height 8. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **In a right triangle the side opposite an angle is 12 and the adjacent side is 16. The tangent of the angle is**

A 0.75

B 1.25

C 0.25

D 1.75

Understand It with Pulse | Flag a mistake

23 In a right triangle the side opposite an angle is 3 and the hypotenuse is 5. The sine of the angle is

- A 1.1
- B 0.6
- C 0.1
- D 1.6

Understand It with Pulse | Flag a mistake

24 Solve: 5 times a number plus 10 equals 55. The number is

ANSWER _____

Understand It with Pulse | Flag a mistake

25 Two numbers sum to 10 and their difference is 4. The larger number is

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. D
3. A
4. B
5. 5
6. B
7. A
8. B
9. D
10. B
11. C
12. A
13. D
14. C
15. C
16. A
17. 0.53
18. 0.6
19. 10
20. 5
21. 10
22. A
23. B
24. 9
25. 7

© 2026 Brett Robbins. All Rights Reserved.