PRINCE EDWARD ISLAND FOUNDATIONS OF MATHEMATICS 11 · UNIT B · 25 QUESTIONS

Angles, 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 **In a right triangle, the side adjacent to an angle is 4 units and the hypotenuse is 5 units. What is the cosine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **In a right triangle, the side opposite an angle is 3 units and the hypotenuse is 5 units. What is the sine of the angle, to two decimal places**

ANSWER _____

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3 **In a right triangle, the side opposite an angle is 3 units and the side adjacent to the angle is 4 units. What is the tangent of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a triangle, two angles measure 30 degrees and 40 degrees. What is the measure of the third angle in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A polygon with eight sides is called an**

A octagon

B hexagon

C pentagon

D heptagon

Understand It with Pulse | Flag a mistake

6 **A straight angle measures**

A 90 degrees

B 270 degrees

C 180 degrees

D 360 degrees

Understand It with Pulse | Flag a mistake

7 **A triangle with all sides equal has each angle equal to**

A 45 degrees

B 90 degrees

C 30 degrees

D 60 degrees

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8 **An angle greater than 90 degrees and less than 180 degrees is called**

A acute

B obtuse

C reflex

D straight

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9 **An exterior angle of a triangle equals the sum of the**

A two adjacent angles

B two remote interior angles

C three interior angles

D two exterior angles

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10 **Complementary angles add to**

A 90 degrees

B 180 degrees

C 45 degrees

D 270 degrees

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11 **In a right triangle, the square of the hypotenuse equals**

A the difference of the squares

B the sum of the squares of the other two sides

C twice the product of the legs

D the sum of the legs

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12 **In a triangle, the side opposite the largest angle is the**

A shortest side

B median

C longest side

D altitude

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13 **In an isosceles triangle, the angles opposite the equal sides are**

A supplementary

B right angles

C equal

D different

Understand It with Pulse | Flag a mistake

14 **Supplementary angles add to**

A 90 degrees

B 180 degrees

C 360 degrees

D 45 degrees

Understand It with Pulse | Flag a mistake

15 **The angles of a triangle always add to**

A 180 degrees

B 90 degrees

C 270 degrees

D 360 degrees

Understand It with Pulse | Flag a mistake

16 **The cosine ratio for a 60 degree angle is**

A $\sqrt{3}/2$

B 1

C $\frac{1}{2}$

D $\sqrt{3}$

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17 **The longest side of a right triangle is called the**

A hypotenuse

B leg

C altitude

D median

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18 **In a right triangle, the side adjacent to an angle is 8 units and the hypotenuse is 10 units. What is the cosine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **In a right triangle, the side opposite an angle is 6 units and the hypotenuse is 10 units. What is the sine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **In a right triangle, the side opposite an angle is 6 units and the side adjacent to the angle is 8 units. What is the tangent of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **In a triangle, two angles measure 45 degrees and 60 degrees. What is the measure of the third angle in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **In a right triangle, the side adjacent to an angle is 12 units and the hypotenuse is 13 units. What is the cosine of the angle, to two decimal places**

ANSWER _____

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23 **In a right triangle, the side opposite an angle is 9 units and the hypotenuse is 15 units. What is the sine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **In a right triangle, the side opposite an angle is 9 units and the side adjacent to the angle is 12 units. What is the tangent of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **In a triangle, two angles measure 20 degrees and 70 degrees. What is the measure of the third angle in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 0.8
2. 0.6
3. 0.75
4. 110
5. A
6. C
7. D
8. B
9. B
10. A
11. B
12. C
13. C
14. B
15. A
16. C
17. A
18. 0.8
19. 0.6
20. 0.75
21. 75
22. 0.92
23. 0.6
24. 0.75
25. 90

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