PRINCE EDWARD ISLAND PRE-CALCULUS 11 · UNIT B · 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 **Cosine of 30 degrees equals**

- A $\frac{1}{2}$
- B $\sqrt{3}/2$
- C 1
- D 0

Understand It with Pulse | Flag a mistake

2 **In a right triangle, the side adjacent to an angle is 7 units and the hypotenuse is 25 units. What is the cosine of the angle, to two decimal places**

ANSWER _____

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3 **In a right triangle, the side opposite an angle is 7 units and the hypotenuse is 25 units. What is the sine of the angle, to two decimal places**

ANSWER _____

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4 **In a right triangle, the side opposite an angle is 7 units and the side adjacent to the angle is 24 units. What is the tangent of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Sine of 30 degrees equals**

A $\frac{1}{2}$

B $\sqrt{3}/2$

C 1

D $\sqrt{3}$

Understand It with Pulse | Flag a mistake

6 **Two angles of a triangle measure 30 degrees and 60 degrees. What is the third angle in degrees**

ANSWER _____

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7 **An angle of 180 degrees in radians is**

A π/2

B 2π

C π/4

D π

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8 **For an angle of 150 degrees, the reference angle is**

A 150 degrees

B 60 degrees

C 120 degrees

D 30 degrees

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9 **Sine is positive in the second quadrant, while cosine is**

A positive

B zero

C negative

D undefined

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10 **Tangent of 30 degrees equals**

- A $\sqrt{3}$
- B 1
- C $1/\sqrt{3}$
- D $\sqrt{3}/2$

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11 **The amplitude of y = 3 sin x is**

- A 1
- B 2
- C 3
- D 6

Understand It with Pulse | Flag a mistake

12 **The cosine law is used when two sides and the**

A opposite angle only

B included angle are known

C perimeter

D area

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13 **The graph of cosine is a sine graph shifted**

A vertically only

B by amplitude

C by period

D horizontally

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14 The period of the sine function is

- A 180 degrees
- B 360 degrees
- C 90 degrees
- D 720 degrees

Understand It with Pulse | Flag a mistake

15 Cosine of 60 degrees equals

- A $\frac{1}{2}$
- B $\sqrt{3}/2$
- C 1
- D 0

Understand It with Pulse | Flag a mistake

16 **In a right triangle, the side adjacent to an angle is 15 units and the hypotenuse is 25 units. What is the cosine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **In a right triangle, the side opposite an angle is 10 units and the hypotenuse is 26 units. What is the sine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **In a right triangle, the side opposite an angle is 10 units and the side adjacent to the angle is 24 units. What is the tangent of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Sine of 45 degrees equals**

A $\frac{1}{2}$

B 1

C $\sqrt{2}$

D $\sqrt{2}/2$

Understand It with Pulse | Flag a mistake

20 **Two angles of a triangle measure 45 degrees and 60 degrees. What is the third angle in degrees**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **Cosine of 90 degrees equals**

- A 1
- B $\frac{1}{2}$
- C 0
- D -1

Understand It with Pulse | Flag a mistake

22 **In a right triangle, the side adjacent to an angle is 20 units and the hypotenuse is 29 units. What is the cosine of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **In a right triangle, the side opposite an angle is 16 units and the hypotenuse is 20 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 20 units and the side adjacent to the angle is 21 units. What is the tangent of the angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Sine of 90 degrees equals**

A 0

B 1

C $\frac{1}{2}$

D $\sqrt{3}/2$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**10.**	C	**19.**	D
2.	0.28	**11.**	C	**20.**	75
3.	0.28	**12.**	B	**21.**	C
4.	0.29	**13.**	D	**22.**	0.69
5.	A	**14.**	B	**23.**	0.8
6.	90	**15.**	A	**24.**	0.95
7.	D	**16.**	0.6	**25.**	B
8.	D	**17.**	0.38		
9.	C	**18.**	0.42		

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