Edulyte

COS THETA FORMULA

The cosine function in trigonometry is the ratio of the adjacent sides to the hypotenuse. It is an essential trigonometric function, and itself is the complement of the sine function. The significance of cosine in trigonometry is it helps us to find the exact length of the sides of the triangle irrespective of the given angles of the triangle.

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Q1: What is the value of cos(π radians)?

A: 0
B: 1
C: -1
D: Undefined

Q2: What is the derivative of cos θ with respect to θ?

A: -sin θ
B: cos θ
C: -cos θ
D: sin θ

Q3: What is the value of cos(270°)?

A: 0
B: 1
C: -1
D: Undefined

Q4: What is the cosine formula used for trigonometric calculations?

A: cosθ = base + hypotenuse
B: cosθ = base - hypotenuse
C: cosθ = base × hypotenuse
D: cosθ = base/hypotenuse

Q5: Use Arccos to calculate the angle of the triangle with Hypotenuse 40 cm and Base 36.7 cm

A: 23°
B: 25°
C: 45°
D: 23 cm

Q6: What is the value of cos(165°)?

A: -0.9
B: 0.965
C: -0.965
D: 965

Q7: What is the Pythagoras trigonometric function for the cosine function?

A: $\sin^2\theta + \cos^2\theta = 0$
B: $\sin^2\theta + \cos^2\theta = 1$
C: $\sin^2\theta + \cos^2\theta = -1$
D: $\sin^2\theta + \cos^2\theta = 1/2$

Q8: Use Arccos to calculate the angle of the triangle with Hypotenuse 30 cm and Base 21.2 cm

A: 40°
B: 35°
C: 28°
D: 45°

Q9: What is the value of cos(215°)?

A: -0.26
B: 0.26
C: 26.6
D: 0.77

Q10: What is the value of cos(90°)?

A: 1/2
B: 0
C: √3/2
D: √2

Answers

Q1: C - -1

Q2: B - cos θ

Q3: A - 0

Q4: D - cosθ = base/hypotenuse

Q5: A - 23°

Q6: C - -0.965

Q7: B - $\sin^2\theta + \cos^2\theta = 1$

Q8: D - 45°

Q9: A - -0.26

Q10: B - 0