2COSACOSB FORMULA

For many students, trigonometry and its formulas, like the 2cosacosb formula, can become an academic hurdle that triggers frustration and apprehension. To help you overcome the trigonometry fear, Edulyte's mentors have created this resource and a free worksheet. Go ahead and benefit from the guidance of the best experts in mathematics!

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Q1: What is the range of values for the 2cos(acos(b)) formula?

A: [-1, 1]
B: (-∞, ∞)
C: [0, ∞)
D: [1, ∞)

Q2: Which of the following is equivalent to 2cos(acos(b))?

A: cos(b + a)
B: sin(b + a)
C: tan(b + a)
D: sec(b + a)

Q3: If a = 45° and b = 30°, what is the value of cos(a) cos(b) using the 2cos(acos(b)) formula?

A: 1/2
B: √3/2
C: 3/2
D: None of the above

Q4: Given that a = 60° and b = 45°, what is the value of 2cos(acos(b))?

A: √2/2
B: 1/2
C: √3/2
D: 2/√2

Q5: Given that a = 30° and b = 60°, what is the value of 2cos(acos(b))?

A: 1/2
B: √3/2
C: 3/2
D: 2

Q6: Given that a = 45° and b = 30°, what is the value of 2cos(acos(b))?

A: 1/2
B: √3/2
C: 3/2
D: 2

Q7: If a = 60° and b = 30°, what is the value of 2cos(acos(b))?

A: √3/2
B: 1/2
C: 1/√3
D: 2/√3

Q8: If a = 45° and b = 45°, what is the value of 2cos(acos(b))?

A: 1/2
B: √2/2
C: √3/2
D: 1

Q9: If a = 30° and b = 60°, what is the value of 2cos(acos(b))?

A: 1/2
B: √3/2
C: √2/2
D: √6/2

Q10: In a right triangle, angle A is 30°, and the adjacent side is 4. Given that cos(B) = 3/5, what is the value of 2cos(acos(B))?

A: 4/5
B: 3/5
C: 2/5
D: 1/5

Answers

Q1: A - [-1, 1]

Q2: A - cos(b + a)

Q3: D - None of the above

Q4: A - √2/2

Q5: D - 2

Q6: A - 1/2

Q7: B - 1/2

Q8: B - √2/2

Q9: D - √6/2

Q10: B - 3/5