Trigonometry · Grade 12

Some answers are exact values; others are rounded (calculator approximations).

Name _____ Date _____ Score _____ / 8

01 cot 60° = _____

02 sin 75° ≈ _____

03

Right triangle: a = 7, b = 24, c = 25, ∠C = 90°. sin A =

_____

04

cos θ = 0, solve for θ (0° ≤ θ ≤ 90°) =

_____

05

Right triangle: ∠C = 90°, a = 12, c = 37. Find ∠A ≈

_____

06

cos θ = 1, solve for θ (0° ≤ θ ≤ 90°) =

_____

07

Use a compound angle formula to find the exact value of sin 105° (as 60° + 45°) =

_____

08 sin 79° ≈ _____

TRIGONOMETRY · GRADE 12

Trigonometry · Grade 12 (Answer Key)

Some answers are exact values; others are rounded (calculator approximations).

01 cot 60° = **√3/3**

02 sin 75° ≈ **0.97**

03

Right triangle: a = 7, b = 24, c = 25, ∠C = 90°. sin A =

7/25

04

cos θ = 0, solve for θ (0° ≤ θ ≤ 90°) =

90°

05

Right triangle: ∠C = 90°, a = 12, c = 37. Find ∠A ≈

18.9°

06

cos θ = 1, solve for θ (0° ≤ θ ≤ 90°) =

0°

07

Use a compound angle formula to find the exact value of sin 105° (as 60° + 45°) =

(√6 + √2)/4

08 sin 79° ≈ **0.98**