TRIGONOMETRY · GRADE 11

Trigonometry · Grade 11

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

Name _____ Date _____ Score _____ / 8

01

Triangle ABC: ∠A = 75°, ∠B = 55°, a = 12. Find b (Sine Law) ≈

_____

02

Right triangle: a = 20, b = 21, c = 29, ∠C = 90°. sin B =

_____

03 cos 51° ≈ _____

04 cos 20° ≈ _____

05

Right triangle: ∠C = 90°, b = 16, c = 20. Find ∠A ≈

_____

06

Right triangle: a = 16, b = 30, c = 34, ∠C = 90°. sin B =

_____

07

Triangle ABC: a = 10, b = 9, c = 15. Find ∠C (Cosine Law) ≈

_____

08 sin 44° ≈ _____

TRIGONOMETRY · GRADE 11

Trigonometry · Grade 11 (Answer Key)

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

01

Triangle ABC: ∠A = 75°, ∠B = 55°, a = 12. Find b (Sine Law) ≈

10.2

02

Right triangle: a = 20, b = 21, c = 29, ∠C = 90°. sin B =

21/29

03 cos 51° ≈ **0.63**

04 cos 20° ≈ **0.94**

05

Right triangle: ∠C = 90°, b = 16, c = 20. Find ∠A ≈

36.9°

06

Right triangle: a = 16, b = 30, c = 34, ∠C = 90°. sin B =

15/17

07

Triangle ABC: a = 10, b = 9, c = 15. Find ∠C (Cosine Law) ≈

104.1°

08 sin 44° ≈ **0.69**