TRIGONOMETRY · GRADE 10

Trigonometry · Grade 10

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

Name _____ Date _____ Score _____ / 8

01

Triangle ABC: ∠A = 80°, ∠B = 55°, a = 13. Find c (Sine Law) ≈

02

Triangle ABC: a = 14, b = 14, ∠C = 30°. Find c (Cosine Law) ≈

03

Right triangle: a = 6, b = 8, c = 10, ∠C = 90°. tan B =

04

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

05

Triangle ABC: a = 14, b = 14, c = 11. Find ∠C (Cosine Law) ≈

06

Right triangle: ∠C = 90°, ∠A = 49°, c = 24. Find b ≈

07

Right triangle: a = 12, b = 35, c = 37, ∠C = 90°. cos B =

08

Triangle ABC: ∠A = 40°, ∠B = 80°, a = 18. Find b (Sine Law) ≈

TRIGONOMETRY · GRADE 10

Trigonometry · Grade 10 (Answer Key)

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

01

Triangle ABC: ∠A = 80°, ∠B = 55°, a = 13. Find c (Sine Law) ≈

9.3

02

Triangle ABC: a = 14, b = 14, ∠C = 30°. Find c (Cosine Law) ≈

7.2

03

Right triangle: a = 6, b = 8, c = 10, ∠C = 90°. tan B =

4/3

04

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

15/8

05

Triangle ABC: a = 14, b = 14, c = 11. Find ∠C (Cosine Law) ≈

46.3°

06

Right triangle: ∠C = 90°, ∠A = 49°, c = 24. Find b ≈

15.7

07

Right triangle: a = 12, b = 35, c = 37, ∠C = 90°. cos B =

12/37

08

Triangle ABC: ∠A = 40°, ∠B = 80°, a = 18. Find b (Sine Law) ≈

27.6