TRIGONOMETRY · GRADE 12

Trigonometry · Grade 12

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

Name _____ Date _____ Score _____ / 8

01 cot 60° = _____

02

cos θ = √2/2, solve for θ (0° ≤ θ ≤ 90°) =

_____

03 sin 45° = _____

04

sin θ = 1/2, solve for θ (0° ≤ θ ≤ 90°) =

_____

05 tan 14° ≈ _____

06

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

_____

07 sin 30° = _____

08

cos θ = √3/2, solve for θ (0° ≤ θ ≤ 90°) =

_____

Trigonometry · Grade 12 (Answer Key)

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

01 cot 60° = **√3/3**

02 cos θ = √2/2, solve for θ (0° ≤ θ ≤ 90°) =

45°

03 sin 45° = **√2/2**

04 sin θ = 1/2, solve for θ (0° ≤ θ ≤ 90°) =

30°

05 tan 14° ≈ **0.25**

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

(√2 − √6)/4

07 sin 30° = **1/2**

08 cos θ = √3/2, solve for θ (0° ≤ θ ≤ 90°) =

30°