ARIZONA GEOMETRY · UNIT 3 · 10 QUESTIONS

Trigonometry and Measurement — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **In a 30 60 90 triangle, the hypotenuse is 18. The shortest side is**

- A 36
- B 18
- C 9
- D $9\sqrt{3}$

Understand It with Pulse | Flag a mistake

2 **A triangle has base 14 and height 4. Its area is**

- A 18
- B 28
- C 56
- D 36

Understand It with Pulse | Flag a mistake

3 **A trapezoid has bases 8 and 12 and height 6. Its area is**

- A 120
- B 60
- C 40
- D 96

Understand It with Pulse | Flag a mistake

4 **A cylinder has radius 2 and height 6. Its volume is**

- A 12π
- B 36π
- C 48π
- D 24π

Understand It with Pulse | Flag a mistake

5 **A cone has radius 3 and height 8. Its volume is**

- A 24π
- B 48π
- C 8π
- D 72π

Understand It with Pulse | Flag a mistake

6 **A sphere has radius 2. Its volume is**

- **A** 16π
- **B** $\frac{16\pi}{3}$
- **C** 8π
- **D** $\frac{32\pi}{3}$

Understand It with Pulse | Flag a mistake

7 **A cube has side length 5. Its surface area is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **If tan x = 1 and x is acute, then x is**

- A 60°
- B 45°
- C 30°
- D 90°

Understand It with Pulse | Flag a mistake

9 **A tower 20 tall is seen at an angle of elevation of 45°. The horizontal distance to the tower is**

- A 10
- B $20\sqrt{2}$
- C 40
- D 20

Understand It with Pulse | Flag a mistake

10 **One acute angle of a right triangle measures 28°. The other acute angle measures**

A 152°

B 90°

C 62°

D 28°

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. B
4. D
5. A
6. D
7. 150
8. B
9. D
10. C

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