CALIFORNIA GEOMETRY · UNIT 2 · 10 QUESTIONS

Similarity and Right Triangle Trigonometry — 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 If $\sin x = \frac{\sqrt{3}}{2}$ and x is acute, then x is

- **A** 30°
- **B** 45°
- **C** 60°
- **D** 90°

Understand It with Pulse | Flag a mistake

2 **The angle of depression from a lookout equals the angle of elevation from below because they are**

- A Complementary angles
- B Alternate interior angles
- C Corresponding sides
- D Vertical angles

Understand It with Pulse | Flag a mistake

3 **A shadow 12 long is cast by a pole 9 tall. A tree casts a shadow 20 long. The tree height is**

- A 24
- B 15
- C 27
- D 11

Understand It with Pulse | Flag a mistake

4 **The converse of the Pythagorean theorem can show a triangle is**

A Equilateral

B Isosceles only

C Right

D Obtuse only

Understand It with Pulse | Flag a mistake

5 **The sides 9, 12, 15 form a triangle that is**

A Right

B Obtuse

C Acute

D Impossible

Understand It with Pulse | Flag a mistake

6 **The sides 5, 6, 7 form a triangle that is**

- A Acute
- B Obtuse
- C Impossible
- D Right

Understand It with Pulse | Flag a mistake

7 **The sides 4, 5, 8 form a triangle that is**

- A Right
- B Acute
- C Obtuse
- D Impossible

Understand It with Pulse | Flag a mistake

8 **In similar figures corresponding angles are**

A Supplementary

B Congruent

C Proportional

D Complementary

Understand It with Pulse | Flag a mistake

9 **Two similar triangles have shortest sides 4 and 16. The longest side of the smaller is 9. The longest side of the larger is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A right triangle has legs 12 and 16. The hypotenuse is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. C
2. B
3. B
4. C
5. A
6. A
7. C
8. B
9. 36
10. 20

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