DELAWARE 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 **An exterior angle of a triangle has remote interior angles measuring 72° and 74°. The exterior angle measures**

- **A** 166°
- **B** 126°
- **C** 146°
- **D** 34°

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2 In a right triangle, the side opposite an acute angle is 3, the adjacent side is 4, and the hypotenuse is 5. The cosine of the angle is

- **A** $\frac{3}{5}$
- **B** $\frac{4}{3}$
- **C** $\frac{5}{4}$
- **D** $\frac{4}{5}$

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3 In a 45-45-90 triangle, each leg is 7. The hypotenuse is

- **A** $7\sqrt{2}$
- **B** 14
- **C** $7\sqrt{3}$
- **D** 7

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4 **Two angles of a triangle measure 70° and 74°. The third angle measures**

A 46°

B 26°

C 36°

D 144°

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5 **An exterior angle of a triangle has remote interior angles measuring 48° and 31°. The exterior angle measures**

A 99°

B 59°

C 101°

D 79°

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6 In a right triangle, the side opposite an acute angle is 9, the adjacent side is 12, and the hypotenuse is 15. The cosine of the angle is

- **A** $\frac{12}{15}$
- **B** $\frac{9}{15}$
- **C** $\frac{12}{9}$
- **D** $\frac{15}{12}$

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7 In a 45-45-90 triangle, each leg is 5. The hypotenuse is

- **A** 10
- **B** $5\sqrt{2}$
- **C** $5\sqrt{3}$
- **D** 5

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8 **Two angles of a triangle measure 41° and 33°. The third angle measures**

- A 116°
- B 96°
- C 74°
- D 106°

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9 **An exterior angle of a triangle has remote interior angles measuring 41° and 58°. The exterior angle measures**

- A 99°
- B 119°
- C 79°
- D 81°

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10 **In a right triangle, the side opposite an acute angle is 3, the adjacent side is 4, and the hypotenuse is 5. The cosine of the angle is**

- **A** $\frac{3}{5}$
- **B** $\frac{4}{5}$
- **C** $\frac{4}{3}$
- **D** $\frac{5}{4}$

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ANSWER KEY

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

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