DELAWARE ALGEBRA II · UNIT 3 · 10 QUESTIONS

# Exponential, Logarithmic, and Trigonometric Functions — 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 45-45-90 triangle, each leg is 7. The hypotenuse is**

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

Understand It with Pulse | Flag a mistake

**2** **In a 30-60-90 triangle, the shortest side is 5. The hypotenuse is**



A 10

B 12

C 5

D 8

Understand It with Pulse | Flag a mistake

3 **A geometric sequence starts with 2 and has common ratio 3. The 4 term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Evaluate $\log_2 4$.**

ANSWER _____

Understand It with Pulse | Flag a mistake

**5** **In a right triangle, the side opposite an acute angle is 6, the adjacent side is 8, and the hypotenuse is 10. The sine of the angle is**



A 8

B 6

C 6

D 10

Understand It with Pulse | Flag a mistake

**6** **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

Understand It with Pulse | Flag a mistake

**7** **In a 30-60-90 triangle, the shortest side is 3. The hypotenuse is**

- A 8
- B 3
- C 6
- D 4

Understand It with Pulse | Flag a mistake

8 **A geometric sequence starts with 3 and has common ratio 2. The 4 term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **In a 45-45-90 triangle, each leg is 4. The hypotenuse is**

A 8

B $4\sqrt{3}$

C $4\sqrt{2}$

D 4

Understand It with Pulse | Flag a mistake

10 **In a 30-60-90 triangle, the shortest side is 3. The hypotenuse is**

A 6

B 8

C 3

D 4

Understand It with Pulse | Flag a mistake

# ANSWER KEY

1. A
2. A
3. 54
4. 2
5. B
6. A
7. C
8. 24
9. C
10. A

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