EXPONENTIAL, LOGARITHMIC, AND TRIGONOMETRIC FUNCTIONS - PRACTICE TEST | MINNESOTA ALGEBRA 2 · 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 **The solution of $\log_5 x = 2$ is**

Question 1

The solution of $\log_5 x = 2$ is

A) 25 B) 7

C) 32 D) 10

- **A** 25
- **B** 7
- **C** 32
- **D** 10

Understand It with Pulse | Flag a mistake

2 A bank balance of 1000 dollars grows by 5% each year. After 2 years, the balance, in dollars, is

Question 2

A bank balance of 1000 dollars grows by 5% each year. After 2 years, the balance, in dollars, is

ANSWER

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3 The exact value of sin(π/3) is

Question 3

The exact value of $\sin\left(\frac{\pi}{3}\right)$ is

A) $\frac{\sqrt{2}}{2}$

B) 1

C) $\frac{1}{2}$

D) $\frac{\sqrt{3}}{2}$

- A $\sqrt{2}/2$
- B 1
- C 1/2
- D $\sqrt{3}/2$

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4 The exact value of cos(π/6) is

Question 4

The exact value of $\cos\left(\frac{\pi}{6}\right)$ is

A) 0

B) $\frac{1}{2}$

C) $\frac{\sqrt{2}}{2}$

D) $\frac{\sqrt{3}}{2}$

- **A** 0
- **B** 1/2
- **C** $\sqrt{2}/2$
- **D** $\sqrt{3}/2$

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5 An angle of 210° has a reference angle of

Question 5

An angle of 210° has a reference angle of

A) 30°

B) 60°

C) 150°

D) 210°

A 30°

B 60°

C 150°

D 210°

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6 An angle of -60° is coterminal with

Question 6

An angle of -60° is coterminal with

A) 120°

B) 300°

C) 240°

D) 60°

A 120°

B 300°

C 240°

D 60°

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7 The period of y = cos(3x) is

Question 7

The period of $y = \cos(3x)$ is

A) 2π

B) $\frac{\pi}{3}$

C) 3π

D) $\frac{2\pi}{3}$

A 2π

B π/3

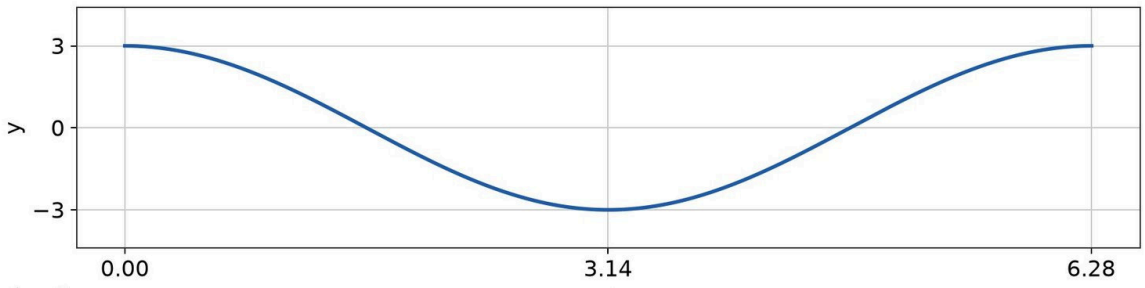
C 3π

D 2π/3

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8 **The graph below shows y = 3cos x. The maximum value of the function is**



A 6

B 1

C 2

D 3

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9 **The number of solutions of cos x = 0 on 0 ≤ x < 2π is**

Question 9

The number of solutions of cos $x = 0$ on $0 \leq x < 2\pi$ is

ANSWER

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10 If tanθ = 1 and θ is in Quadrant I, then sinθ is

Question 10

If $\tan\theta = 1$ and θ is in Quadrant I, then $\sin\theta$ is

A) $\frac{1}{2}$

B) $\frac{\sqrt{3}}{2}$

C) $\frac{\sqrt{2}}{2}$

D) 1

A 1/2

B $\sqrt{3}/2$

C $\sqrt{2}/2$

D 1

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ANSWER KEY

1. A
2. 1102.5
3. D
4. D
5. A
6. B
7. D
8. D
9. 2
10. C

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