ARKANSAS PRECALCULUS · UNIT 1 · 10 QUESTIONS

Functions and Transformations — 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 function $f(x) = x^2 + x$ is**

- A Even
- B Neither even nor odd
- C Odd
- D Both

Understand It with Pulse | Flag a mistake

2 **The graph of y = f(x) + 4 is the graph of y = f(x) shifted**

A Left 4

B Right 4

C Up 4

D Down 4

Understand It with Pulse | Flag a mistake

3 **The graph of y = f(-x) is the graph of y = f(x) reflected across the**

A x-axis

B Origin

C Line y = x

D y-axis

Understand It with Pulse | Flag a mistake

4 **If f(x) = 3x - 2, then f(4) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **If f(x) = 6 - 2x, then f(2) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The vertex of $y = (x + 2)^2 - 5$ is**

A (-2, -5)

B (2, -5)

C (-2, 5)

D (2, 5)

Understand It with Pulse | Flag a mistake

7 **If $f(x) = x^3$, then $f(-2)$ is**

- A 8
- B -8
- C 6
- D -6

Understand It with Pulse | Flag a mistake

8 **The y-intercept of $f(x) = 5x - 8$ is**

- A 5
- B 8
- C -8
- D 0

Understand It with Pulse | Flag a mistake

9 **Which function is increasing on its entire domain?**

- **A** $f(x) = -x$
- **B** $f(x) = x^2$
- **C** $f(x) = |x|$
- **D** $f(x) = 2x - 1$

Understand It with Pulse | Flag a mistake

10 **The x-intercept of $f(x) = x + 6$ is**

- **A** -6
- **B** 6
- **C** 0
- **D** 1

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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