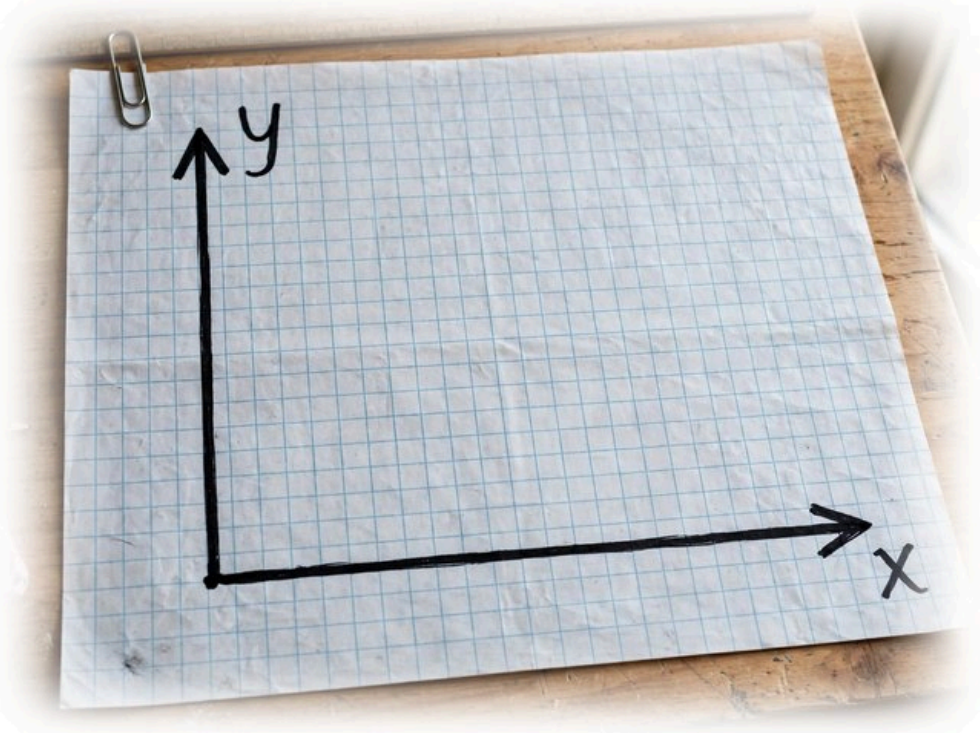
ILLINOIS PRECALCULUS · UNIT 1 · 5 QUESTIONS

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 **A coordinate grid shows x and y axes. If $f(x) = 5 - x^2$, then $f(-4)$ is**



A -11

B 21

C -21

D 11

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2 The domain of $f(x) = \sqrt{2x + 6}$ is

- **A** $x \geq -3$
- **B** $x > -3$
- **C** $x \leq -3$
- **D** $x \geq 3$

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3 The domain of $f(x) = \frac{x}{x + 7}$ is

- **A** $x \neq 7$
- **B** $x \neq 0$
- **C** $x \neq -7$
- **D** all real numbers

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4 **If $f(x) = x^2$ and $g(x) = x - 5$, then $(g \circ f)(3)$ is**

- **A** 4
- **B** 14
- **C** -4
- **D** 2

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5 **The inverse of $f(x) = 5x - 10$ is**

- **A** $f^{-1}(x) = \frac{x + 10}{5}$
- **B** $f^{-1}(x) = \frac{x - 10}{5}$
- **C** $f^{-1}(x) = 5x + 10$
- **D** $f^{-1}(x) = \frac{x}{5} - 10$

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ANSWER KEY

1. A
2. A
3. C
4. A
5. A

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