

# Calculus Readiness Test

Directions for Answering the Multiple-Choice Problems: Solve each of the following problems, using the available space for scratch work. After examining the form of the choices, decide which is the best of the choices given and mark the corresponding choice on the answer sheet. The non-squared marks are on the problem sheet; mark an answer on the answer sheet.

1. The domain of the function  $f(x) = 2\sqrt{x+2}$  is  
 (A)  $x \leq -2$  (B)  $x \leq 2$  (C)  $x \geq -2$   
 (D)  $x \geq 2$

2. The domain of the function  $f(x) = 2x^2 + x^2 + 3$  is  
 (A) all positive numbers (B)  $-2 \leq x \leq 2$   
 (C) all real numbers (D)  $-2 \leq x \leq 2$

3. Suppose  $(a, b)$  is the solution to the system of equations below.

$$\begin{cases} x + 2y = -2 \\ 3x + y = 8 \end{cases}$$

Compute  $a + b$ .

- (A) 2 (B) 4 (C) 6 (D) 8

4.  $(2x^2 - 3y^2)^{-1/2}$  is  
 (A)  $\frac{2x^2y^2}{2}$  (B)  $\frac{2x^2}{2}$  (C)  $\frac{2}{2x^2}$  (D)  $\frac{2}{2y^2}$

5.  $\sqrt[3]{27+108}$  is  
 (A)  $\frac{2}{2+3}$  (B)  $\frac{2}{2+8}$  (C)  $-9\sqrt{2}$  (D)  $\frac{2}{2}$

6. One of the roots of  $2x^2 + 3x + 1 = 0$  is  
 (A)  $\frac{-2 \pm \sqrt{33}}{2}$  (B)  $\frac{2 \pm \sqrt{33}}{2}$  (C)  $\frac{2 \pm \sqrt{33}}{2}$   
 (D)  $\frac{-2 \pm \sqrt{33}}{2}$

7. If the graph of the function  $f(x)$  is shifted horizontally 2 units to the right, reflected over the  $y$ -axis, and stretched away from the  $y$ -axis by a factor of 2, then the new graph represents the function  
 (A)  $-2f(x-2)$  (B)  $-\frac{1}{2}f(x-2)$   
 (C)  $-f(x+2)$  (D)  $-\frac{1}{2}f(x+2)$

8. If  $f(x) = x^2$  and  $g(x) = 4x + 1$ , then  $fg = f(g(x))$  is  
 (A)  $24x$  (B)  $2x$  (C)  $4.04x$  (D)  $0.42x$

9. If  $f(x) = x^2 + 2x + 1$ , then  $f(x) = 2$  represents  $f(x)$  shifted  
 (A) 2 units to the right (B) 2 units to the left  
 (C) 2 units up (D) 2 units down

10. The slope of the line through the points  $(-2, 4)$  and  $(7, -8)$  is  
 (A)  $-\frac{4}{9}$  (B)  $-\frac{8}{9}$  (C)  $-\frac{10}{9}$  (D)  $-\frac{12}{9}$

11. The line passing through the points  $(8, 1, -24)$  and  $(2, -8)$  has slope 2. What is the value of  $k$ ?  
 (A) 2 (B) 4 (C) 5 (D) 6

12. A line passes through the point  $(4, -7)$  and has slope  $\frac{2}{3}$ . What is the equation of the line?  
 (A)  $2x + 3y = 26$  (B)  $2x + 3y = 36$   
 (C)  $2y + 3x = 26$  (D)  $2x + 3y = 26$

13. Find the domain of  $f(x) = \frac{x^2 + 3x + 1}{x^2 + x + 2}$   
 (A)  $\mathbb{R}$  (B)  $\mathbb{R} \setminus \{-1, 2\}$  (C)  $\mathbb{R} \setminus \{-1, 0, 2\}$   
 (D)  $\mathbb{R} \setminus \{-2, -1, 0, 2\}$

14. Simplify  $\frac{x^2 + 2x + 1}{x^2 + 2x + 2}$   
 (A)  $\frac{x+1}{x+2}$  (B)  $\frac{x+1}{x+2}$  (C)  $\frac{x+1}{x+2}$   
 (D)  $\frac{x+1}{x+2}$

15. Simplify  $\frac{x+2}{x^2+3x} - \frac{2x}{x^2+3x}$   
 (A)  $-\frac{2x^2+x+4}{x(x^2+3x)}$  (B)  $-\frac{2x^2+1}{x(x^2+3x)}$   
 (C)  $-\frac{2x+1}{x(x^2+3x)}$  (D)  $-\frac{2x^2+2x+4}{x(x^2+3x)}$

# Calculus Readiness Test With Answers

**Mike Jess**



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