

# Calculus Readiness Test

Directions for answering the Multiple-Choice Problems: Circle each of the following problems, using the available space for scratch work. After examining all the items, circle a choice in the form of the choices given and mark the corresponding choice in the answer column. The non-circled items will come on any one problem. Mark an answer in the answer column.

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

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

6. One of the roots of  $2x^2 + 3x - 1 = 0$  is  
 (A)  $\frac{-3 \pm \sqrt{33}}{4}$  (B)  $\frac{3 \pm \sqrt{33}}{4}$  (C)  $\frac{3 \pm \sqrt{33}}{2}$   
 (D)  $\frac{-3 \pm \sqrt{33}}{2}$

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)  $4x^2$  (B)  $4x$  (C)  $4x^2 + 1$  (D)  $4x^2 + 1$

9. If  $f(x) = x^2 + 2x + 1$ , then  $f(x) = 3$  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  $\frac{3}{2}$ . 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  $\frac{x^2 + 2x + 1}{x^2 + 3x + 2}$   
 (A)  $\frac{x+1}{x+2}$  (B)  $\frac{x+1}{x+4}$  (C)  $\frac{x+1}{x+3}$   
 (D)  $\frac{x+1}{x+1}$

15. Simplify  $\frac{x+2}{x^2+3x} - \frac{2x}{x^2+2x}$   
 (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)  $-\frac{2x^2+2x+4}{x(x^2+3x)}$

# Examples Of Uc Csu Algebra Readiness Diagnostic Test

**Zhe Xu**



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