

# Trig Review Quiz 0-5 B

Name: \_\_\_\_\_

- \_\_\_\_\_1. If A is a  $4 \times 5$  matrix, B a  $4 \times 3$  matrix, and C a  $3 \times 5$  matrix, what matrices could be multiplied?  
A. A and B      B. A and C      C. B and C      D. All of them could be
- \_\_\_\_\_2. Simplify  $\frac{n^2 + 6n + 8}{n^2 + 7n + 12}$   
A.  $\frac{n+2}{n+3}$       B.  $\frac{n+3}{n+4}$       C.  $\frac{n+6}{n+4}$       D.  $\frac{n+1}{n+4}$
- \_\_\_\_\_3. Which equation below is not in standard form?  
A.  $3x - y = 5$       B.  $4x + y = -3$       C.  $-2x + y = 9$       D.  $x - y = -1$
- \_\_\_\_\_4. What is the domain of  $f(x) = \frac{x^3}{x-3}$ ?  
A.  $x \neq 3$       B.  $x > 3$       C.  $x \geq 3$       D. None of the above
- \_\_\_\_\_5. Simplify  $\frac{4 \pm \sqrt{-40}}{2}$   
A.  $2 \pm i\sqrt{10}$       B.  $2 \pm 2i\sqrt{10}$       C.  $2 \pm i\sqrt{20}$       D.  $2 \pm 2i$
- \_\_\_\_\_6. Simplify  $\frac{n^2 + 9n - 10}{n^2 - 3n - 4}$   
A.  $\frac{n+10}{n+4}$       B.  $\frac{n+10}{n-4}$       C.  $\frac{n+6n-6}{1}$       D. Doesn't simplify
- \_\_\_\_\_7. Simplify  $(a^{-3}b^{-2})^{-2}$   
A.  $\frac{-1}{a^6b^4}$       B.  $\frac{a^6}{b^4}$       C.  $\frac{1}{a^6b^4}$       D.  $a^6b^4$
- \_\_\_\_\_8. What is the vertical asymptote of  $y = \frac{2x^3 + 5}{x+4}$ ?  
A.  $x = 4$       B.  $x = -4$       C.  $x = 2$       D. No vertical asymptote
- \_\_\_\_\_9. What is the domain of  $f(x) = x^3 - 8$ ?  
A.  $x \neq 2$       B.  $\mathbb{R}$       C.  $x \geq 2$       D.  $x > 2$
- \_\_\_\_\_10. Which is the equation that is perpendicular to  $y = -2x + 4$  and goes through  $(4, 1)$ ?  
A.  $y = \frac{1}{2}x + 1$       B.  $y = 2x - 7$       C.  $y = -\frac{1}{2}x + 1$       D.  $y = \frac{1}{2}x - 1$