

# Trig Review Quiz 0-3 A

- \_\_\_\_\_ 1.  $(5n^3)^2$   
A.  $10n^6$       B.  $10n^9$       C.  $25n^6$       D.  $25n^9$
- \_\_\_\_\_ 2.  $(5a^2n^3)(-2a^2n^3)$   
A.  $3a^2n^3$       B.  $-10a^4n^9$       C.  $-10a^4n^6$       D. None of the above
- \_\_\_\_\_ 3. Give the equation of the line in standard form that is perpendicular to  $2x - 10y = 10$  and passes through the point (3,3).  
A.  $2x + 5y = -16$       B.  $5x + y = 18$       C.  $x + 5y = -16$       D.  $5x - y = -9$
- \_\_\_\_\_ 4. What is the domain of  $f(x) = \sqrt{2x-12}$   
A.  $\mathbb{R} : x \neq 6$       B.  $\mathbb{R} : x > 6$       C.  $\mathbb{R} : x < 6$       D.  $\mathbb{R} : x \geq 6$
- \_\_\_\_\_ 5.  $x+3 \sqrt{2x^2+11x+15}$   
A.  $2x + 3$       B.  $2x + 5$       C.  $2x + \frac{3}{x+3}$       D. None of the above
- \_\_\_\_\_ 6. What is the distance from (3, 7) to (5, 10)?  
A.  $\sqrt{5}$       B.  $\sqrt{11}$       C.  $\sqrt{13}$       D.  $\sqrt{19}$
- \_\_\_\_\_ 7.  $\left(\frac{9a^{-1}}{b^8}\right)^{-2}$   
A.  $\frac{a^2b^{16}}{81}$       B.  $\frac{b^{16}}{81a^2}$       C.  $\frac{b^{64}}{81a^2}$       D. None of the above
- \_\_\_\_\_ 8. If  $f(x) = 2x - 1$  and  $g(x) = 5x - 2$ , what is  $f(g(x))$ ?  
A.  $10x - 3$       B.  $10x - 5$       C.  $10x - 7$       D. None of the above
- \_\_\_\_\_ 9. The interval notation for  $\{\mathbb{R} : -2 < y \leq 1\}$  is  
A.  $(-2, 1)$       B.  $[-2, 1)$       C.  $(-2, 1]$       D.  $[-2, 1]$
- \_\_\_\_\_ 10. From 10 students, I must pick 4 to represent our homeroom. How many ways can I pick the 4?  
A. 5040      B. 2540      C. 210      D. None of the above