

# Trig Review Quiz 0-4 D

- \_\_\_\_\_1. Simplify  $(x-1)(x^2+2x+3)$   
A.  $x^3+x^2+x-3$       B.  $x^3+2x^2+x-3$   
C.  $x^3+x^2-x-3$       D.  $x^3+x^2+2x-3$
- \_\_\_\_\_2. Simplify  $\sqrt{20a^3y^{10}}$   
A.  $2ay^5\sqrt{5ay}$       B.  $5ay^5\sqrt{2a}$       C.  $2ay^5\sqrt{5a}$       D.  $5ay^5\sqrt{2ay}$
- \_\_\_\_\_3. Simplify  $\frac{9\pm\sqrt{18}}{3}$   
A.  $3\pm i\sqrt{3}$       B.  $3\pm i\sqrt{2}$       C.  $3\pm\sqrt{3}$       D.  $3\pm\sqrt{2}$
- \_\_\_\_\_4. Simplify  $(2a^{-3})^{-2}$   
A.  $\frac{4}{a^6}$       B.  $4a^6$       C.  $\frac{a^6}{4}$       D.  $\frac{a^5}{4}$
- \_\_\_\_\_5. Factor  $16a^4b^2+20ab^5$   
A.  $ab^2(16a^3+20b^3)$       B.  $ab(16a^3b+20b^4)$   
C.  $4ab^2(4a^3+5b^3)$       D. None of the above
- \_\_\_\_\_6. Factor  $y^5+3y^3+4y^2+12$   
A.  $(y^2+4)(y^3+3)$       B.  $(y^2+3)(y^3+4)$       C.  $(y^4+3)(y+4)$       D.  $(y+3)(y^5+4)$
- \_\_\_\_\_7. If  $f(x) = 3x - 1$  and  $g(x) = 2x + 1$ , what is  $f(g(2))$ ?  
A. 12      B. 11      C. 14      D. 13
- \_\_\_\_\_8. What is the domain of  $f(x) = \sqrt{x-3}$ ?  
A.  $x \neq 3$       B.  $x > 3$       C.  $x \geq 3$       D. None of the above
- \_\_\_\_\_9. Which equation below is not in standard form?  
A.  $3x - y = 5$       B.  $4x + y = -3$       C.  $-2x + y = 9$       D.  $x - y = -1$
- \_\_\_\_\_10. What is the value of  $y$  in  $\begin{cases} 2x - y = 8 \\ 3x + y = 12 \end{cases}$   
A.  $y = 1$       B.  $y = 4$       C.  $y = 2$       D. None of the above