

# Trig Review Quiz 3

Name \_\_\_\_\_

- \_\_\_\_\_1. Simplify  $(n^4)^2$   
A.  $n^7$  B.  $n^6$  C.  $n^8$  D.  $2n^4$
- \_\_\_\_\_2. Simplify  $(x - 7)^2$   
A.  $x^2 + 7x + 14$  B.  $x^2 + 14x + 49$  C.  $x^2 - 14x + 49$  D.  $x^2 - 14x - 49$
- \_\_\_\_\_3. Simplify  $(x + 3)(x^2 + 2x + 3)$   
A.  $x^3 + 5x^2 + 9x + 9$  B.  $x^3 + 3x^2 + 9x - 9$   
C.  $x^3 + 3x^2 + 3x + 9$  D.  $x^3 + 3x^2 + 9x + 9$
- \_\_\_\_\_4. Simplify  $3(x - 2) - (x - 4) - 2(x - 3)$   
A.  $2x - 4$  B.  $-4$  C.  $4$  D. None of the above
- \_\_\_\_\_5. Simplify  $\sqrt{27a^4y^{10}}$   
A.  $9a^2y^5\sqrt{3}$  B.  $3a^2y^5\sqrt{3}$  C.  $a^2y^5\sqrt{27}$  D. None of the above
- \_\_\_\_\_6. Is  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2c}$  the quadratic formula?  
A. Yes B. No
- \_\_\_\_\_7. Simplify  $(2n^3)^2 + (2n)(5n^5)$   
A.  $14n^6$  B.  $14n^{12}$  C.  $12n^6$  D.  $12n^{12}$
- \_\_\_\_\_8. If you were to list out all the possible combinations of what  $2x^2 + 13x + 6$  could break down to, how many combinations would you have?  
A. 4 B. 6 C. 8 D. 10
- \_\_\_\_\_9. If you were asked to solve  $n(2n - 6)(n + 20) = 0$ , what would the solutions be?  
A. 3, -20 B. -3, -20 C. 0, 3, -20 D. 0, -20
- \_\_\_\_\_10. Factor  $x^2 - 36$