

# Trig Review Quiz 1

Name \_\_\_\_\_

- \_\_\_\_\_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  $(2n^3 + 5n)(4n^3 + 2n)$   
A.  $8n^6 + 24n^4 + 10n^2$       B.  $8n^9 + 24n^4 + 10n^2$   
C.  $8n^6 + 20n^3 + 10n$       D.  $8n^9 + 24n^3 + 10n^2$
- \_\_\_\_\_3. Simplify  $(2n^3)^3$   
A.  $6n^6$       B.  $6n^9$       C.  $8n^6$       D.  $8n^9$
- \_\_\_\_\_4.  $(n + 10)^2$   
A.  $n^2 + 20$       B.  $n^2 + 100$       C.  $n^2 + 10n + 100$       D.  $n^2 + 20n + 100$
- \_\_\_\_\_5. Simplify  $\sqrt[4]{a^8b^2c^{13}}$   
A.  $ac^3\sqrt[4]{b^2c}$       B.  $a^2c^3\sqrt[4]{b^2c}$       C.  $a^2bc^3\sqrt[4]{c}$       D.  $a^2c^2\sqrt[4]{b^2c^2}$
- \_\_\_\_\_6. Solve for n:  $4(2n + 5) + 2(3n + 5) = 10n + 22$   
A.  $n = -4$       B.  $n = \frac{1}{2}$       C.  $n = -2$       D.  $n = 2$
- \_\_\_\_\_7. Simplify  $\sqrt{160}$   
A. 40      B.  $10\sqrt{4}$       C.  $2\sqrt{40}$       D.  $4\sqrt{10}$
- \_\_\_\_\_8. Simplify  $\sqrt[3]{16x^4y^8}$   
A.  $4xy^2\sqrt[3]{2xy^2}$       B.  $2xy\sqrt[3]{2xy^2}$       C.  $2xy^2\sqrt[3]{2xy^2}$       D. None of the above
- \_\_\_\_\_9. Solve for n:  $4(n - 2) - (2n - 6) = 10$   
A.  $n = -6$       B.  $n = 12$       C.  $n = 6$       D.  $n = -12$
- \_\_\_\_\_10.  $(5a^2n^3)(-2a^2n^3)$   
A.  $3a^2n^3$       B.  $-10a^4n^9$       C.  $-10a^4n^6$       D. None of the above