

Trig Review Quiz 0-2 A

Name: _____

- _____ 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. $\left(\frac{2}{3}\right)^{-3}$ NO CALCULATOR ALLOWED!
A. $\frac{6}{27}$ B. $\frac{8}{27}$ C. $\frac{27}{8}$ D. $-\frac{8}{27}$
- _____ 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. $1000y^3 - x^3$
A. $(10y+x)(100y^2 - 10xy + x^2)$ B. $(10y-x)(100y^2 - 10xy + x^2)$
C. $(10y+x)(100y^2 + 10xy + x^2)$ D. $(10y-x)(100y^2 + 10xy + x^2)$
- _____ 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 $f(x) = x - 1$ and $g(x) = 4x$, what is $f(g(5))$?
A. 19 B. 16 C. $16x - 1$ D. $12x + 4$
- _____ 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. $(x+2)(x-2)(x+3)$
A. $x^3 - 3x^2 - 4x - 12$ B. $x^3 + 3x^2 - 4x - 12$
C. $x^3 + 3x^2 + 4x - 12$ D. $x^3 + 3x^2 - 4x + 12$