

Trig Review Quiz 16

Name: _____

- _____ 1. $(5n^3)^2$
A. $10n^6$ B. $10n^9$ C. $25n^6$ D. $25n^9$
- _____ 2. Which equation is perpendicular to $y = 4x + 2$?
A. $y = -4x + 2$ B. $y = -\frac{1}{4}x - 8$
C. $y = \frac{1}{4}x + 2$ 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. What is the distance from (1, 4) to (5, 8)?
A. $2\sqrt{2}$ B. 8 C. $4\sqrt{2}$ D. 4
- _____ 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. Find the equation of the line, in slope intercept form, that goes through the point (1, 2) and (-2, -4).
A. $y = -2x + 4$ B. $y = -2x - 4$ C. $y = 2x - 3$ 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. What is the midpoint of (3, n) and (7, n + 6)?
A. (5, 3n) B. (5, 2n + 1) C. (5, n + 3) D. (5, 2n + 6)
- _____ 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. $x^3 + 3x^2 - 4x + 12$