

Trig Review Quiz 17

Name: _____

- _____ 1. $(2n^3)^3$
A. $6n^6$ B. $6n^9$ C. $8n^6$ D. $8n^9$
- _____ 2. Which equation is perpendicular to $y = -3x + 2$?
A. $y = 3x + 2$ B. $y = -\frac{1}{3}x - 8$
C. $y = \frac{1}{3}x + 2$ D. None of the above
- _____ 3. $\left(\frac{2}{5}\right)^{-2}$ NO CALCULATOR ALLOWED!
A. $\frac{4}{25}$ B. $\frac{4}{10}$ C. $-\frac{10}{4}$ D. $\frac{25}{4}$
- _____ 4. What is the domain of $f(x) = \sqrt{x-12}$?
A. $\mathbb{R} : x \neq 12$ B. $\mathbb{R} : x \geq 12$ C. $\mathbb{R} : x \leq 12$ D. $\mathbb{R} : x > 12$
- _____ 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 $f(x) = 2x - 1$ and $g(x) = 2x$, what is $f(g(1))$?
A. 3 B. 2 C. $2x - 1$ D. None of the above
- _____ 9. What is the midpoint of (1, 3n) and (7, n + 6)?
A. (4, 2n) B. (4, 2n + 3) C. (4, n + 3) D. None of the above
- _____ 10. $(x - 3)(x + 3)(x + 3)$
A. $x^3 - 3x^2 - 9x - 27$ B. $x^3 + 3x^2 + 9x - 27$
C. $x^3 + 3x^2 - 9x - 27$ D. $x^3 + 3x^2 - 9x - 27$