

Trig Review Quiz 11

Name: _____

- _____1. Simplify $(2n^3y^4)^2 + n(n^5)y^8$
A. $5n^6y^8$ B. $3n^6y^8$ C. $5n^3y^4$ D. $8n^{12}y^{16}$
- _____2. Solve for n: $6(2n - 1) - (n - 4) = 3(3n + 2)$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 4$
- _____3. What is the domain of $f(x) = x^3 - 8$?
A. $x \neq 2$ B. \mathbb{R} C. $x \geq 2$ D. $x > 2$
- _____4. If $f(x) = 2x - 10$ and $g(x) = 3x - 4$, what is $f(g(x))$?
A. $6x - 18$ B. $6x - 2$ C. $6x - 34$ D. $6x - 26$
- _____5. What is the domain of $f(x) = \sqrt{x-1}$?
A. $\mathbb{R} : x \neq 1$ B. $\mathbb{R} : x > 1$ C. $\mathbb{R} : x \geq 1$ D. $\mathbb{R} : x \leq 1$
- _____6. $x+2 \sqrt{4x^2 + 15x + 14}$
A. $4x$ B. $4x + 7$ C. $4x + \frac{4}{x+2}$ D. $4x + 6 + \frac{4}{x+2}$
- _____7. In interval notation, what is $y > 2$?
A. $(-\infty, 2)$ B. $(-\infty, 2]$ C. $(2, \infty)$ D. $[2, \infty)$
- _____8. Simplify $\frac{4a^2c^4}{6ac^5}$
A. $-\frac{2a}{3c}$ B. $\frac{4a}{6c}$ C. $\frac{2a}{3c}$ D. None of the above
- _____9. Simplify $\left(\frac{n^2y^{-2}}{a^{-4}}\right)^2$
A. $\frac{n^4y^4}{a^{16}}$ B. $\frac{n^4y^4}{a^8}$ C. $\frac{n^4a^{16}}{y^4}$ D. $\frac{n^4a^8}{y^4}$
- _____10. Factor $x^2 - 36$