

Trig Review Quiz 0-2 C

Name: _____

- _____ 1. $(a^4 n^3 x^6)(a^2 n^3 x^6)$
A. $a^8 n^6 x^{12}$ B. $a^6 n^9 x^{12}$ C. $a^6 n^6 x^{36}$ D. $a^6 n^6 x^{12}$
- _____ 2. Solve for n: $4(2n - 3) + 2(2n - 1) = 10$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____ 3. If $f(x) = x - 1$ and $g(x) = 4x$, what is $f(g(5))$?
A. 19 B. 16 C. $16x - 1$ D. $12x + 4$
- _____ 4. 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. $\mathbb{R} : x \leq 1$
- _____ 5. $x+2 \overline{)4x^2+15x+14}$
A. $4x$ B. $4x + 7$ C. $4x + \frac{4}{x+2}$ D. $4x + 6 + \frac{4}{x+2}$
- _____ 6. Simplify $(3n^2 y^4)^2 + n(n^4)y^3 y^5$
A. $10n^4 y^8$ B. $10n^5 y^8$ C. $7n^5 y^8$ D. None of the above
- _____ 7. Simplify $\frac{n^2-16}{n^2+n-20}$
A. $\frac{n-4}{n-5}$ B. $\frac{n+4}{n-5}$ C. $\frac{n+4}{n+5}$ D. Doesn't simplify
- _____ 8. **Solve** by factoring: $9x^2 + 21x + 10 = 0$
A. $x = \frac{2}{3}$ or $x = -1\frac{2}{3}$ B. $x = -\frac{2}{3}$ or $x = -1\frac{2}{3}$
C. $x = \frac{2}{3}$ or $x = 1\frac{2}{3}$ D. $x = -\frac{2}{3}$ or $x = 1\frac{2}{3}$
- _____ 9. $y^3 - 8$
A. $(y - 2)(y^2 + 2y + 4)$ B. $(y + 2)(y^2 - 2y + 4)$
C. $(y + 2)(y^2 + 2y + 4)$ D. $(y - 2)(y^2 - 2y + 4)$
- _____ 10. Simplify $\sqrt{-80a^2}$
A. $4a\sqrt{5}$ B. $2ai\sqrt{10}$ C. $4ai\sqrt{5}$ D. None of the above