

Trig Review Quiz 0-3 D

- _____1. Simplify $(x + 2)(x + 2)(x + 2)$
A. $x^3 + 8$ B. $x^3 + 6x^2 + 4x + 12$
C. $x^3 + 6x^2 + 12x + 8$ D. $x^3 + 8x^2 + 12x + 8$
- _____2. Simplify $\frac{n^2 + 6n + 8}{n^2 + 7n + 12}$
A. $\frac{n+2}{n+3}$ B. $\frac{n+3}{n+4}$ C. $\frac{n+6}{n+4}$ D. $\frac{n+1}{n+4}$
- _____3. Factor $y^5 + 3y^3 + 4y^2 + 12$
A. $(y^2 + 4)(y^3 + 3)$ B. $(y^2 + 3)(y^3 + 4)$ C. $(y^4 + 3)(y + 4)$ D. $(y + 3)(y^5 + 4)$
- _____4. Perform the following division $n-2 \overline{)n^2 + 3n - 1}$
A. $n+5 + \frac{-11}{n-2}$ B. $n+5 + \frac{9}{n-2}$ C. $n+1 + \frac{1}{n-2}$ D. $n+1 + \frac{-3}{n-2}$
- _____5. Which is the equation that is parallel to $y = 5x - 2$ and goes through $(1, 1)$?
A. $5x - y = 4$ B. $5x - 2y = 3$ C. $5x + y = 6$ D. $-5x - y = -6$
- _____6. If $f(x) = 2x - 1$ and $g(x) = 2x$, what is $f(g(x))$?
A. $4x - 1$ B. $4x - 2$ C. $4x - 4$ D. None of the above
- _____7. Simplify $2(2n - 4) - (6n - 2)$
A. $-2n - 10$ B. $-2n - 6$ C. $2n - 10$ D. None of the above
- _____8. 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
- _____9. What is the domain of $f(x) = \sqrt{5x - 10}$?
A. $\mathbb{R} : x \neq 2$ B. $\mathbb{R} : x > 2$ C. $\mathbb{R} : x \geq 2$ D. $\mathbb{R} : x \leq 2$
- _____10. $\left(\frac{c^4 a^{-1}}{b^8}\right)^{-2}$
A. $\frac{a^2 b^{16}}{c^8}$ B. $\frac{c^8 b^{16}}{a^2}$ C. $\frac{a^2 c^8}{b^{16}}$ D. None of the above