

Trig Review Quiz 0-6 F

- _____ 1. Pizza Hut offers a 3 topping pizza for \$9.99. If they have 15 different toppings, how many different types of pizza could I get if I ordered one with 3 toppings?
A. 120 B. 455 C. 2730 D. 3375
- _____ 2. 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. $x^3 + 8x^2 + 12x + 8$
- _____ 3. What is the slope of the line tangent to the graph of $f(x) = 2x^4 - x^2 + 6$ at the point (1, 7)?
A. 4 B. 6 C. 112 D. None of the above
- _____ 4. What is the domain of $f(x) = \frac{3x-5}{x-12}$?
A. $\mathbb{R} : x \neq 12$ B. $\mathbb{R} : x \geq 12$ C. $\mathbb{R} : x \leq 12$ D. $\mathbb{R} : x > 12$
- _____ 5. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____ 6. $8y^3 - x^3$
A. $(2y - x)(4y^2 + 2xy + x^2)$ B. $(2y + x)(2y^2 + 2xy + x^2)$
C. $(2y - x)(4y^2 - 2xy + x^2)$ D. $(2y - x)(4y^2 - 2xy - x^2)$
- _____ 7. Find the equation of the line, in slope intercept form, that goes through the point (1, 2) and (4, 8).
A. $y = -3x + 5$ B. $y = 3x - 1$ C. $y = 3x - 3$ D. $y = 3x - 2$
- _____ 8. 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
- _____ 9. What is the value of y in $\begin{cases} 2x + 3y = 8 \\ 4x + 2y = 12 \end{cases}$?
A. $y = 1$ B. $y = 2$ C. $y = 7$ D. None of the above
- _____ 10. Factor $x^3 + 5x^2 + 4x + 20$