

Trig Review Quiz 15

Name: _____

- _____1. 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
- _____2. Simplify $2(2n - 4) - (6n - 2)$
A. $-2n - 10$ B. $-2n - 6$ C. $2n - 10$ D. None of the above
- _____3. 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. $x^3 + 8x^2 + 12x + 8$
- _____4. Simplify $\sqrt{-80a^2}$
A. $4a\sqrt{5}$ B. $2ai\sqrt{10}$ C. $4ai\sqrt{5}$ D. None of the above
- _____5. Simplify $\frac{n^2 + 4n + 3}{n^2 + 7n + 12}$
A. $\frac{n+3}{n+4}$ B. $\frac{1}{n+4}$ C. $\frac{1}{3n+4}$ D. $\frac{n+1}{n+4}$
- _____6. 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. $n+1 + \frac{-3}{n-2}$
- _____7. Factor $8n^3 + 27y^3$
A. $(2n + 3y)(4n^2 + 6ny + 9y^2)$ B. $(2n + 3y)(4n^2 - 6ny + 9y^2)$
C. $(2n - 3y)(4n^2 + 6ny + 9y^2)$ D. $(2n + 3y)(4n^2 - 6ny - 9y^2)$
- _____8. What is the domain of $f(x) = x^3 - 8$?
A. $x \neq 2$ B. \mathbb{R} C. $x \geq 2$ D. $x > 2$
- _____9. If $f(x) = 3x - 10$ and $g(x) = 2x + 1$, what is $f(g(x))$?
A. $6x - 19$ B. $6x - 13$ C. $6x + 13$ D. $6x - 7$
- _____10. When he graduated from college, what award did Mr. Hickam receive at commencement? Commencement is what graduation day is called in college, in case you didn't know.
A. Algernon Sydney Sullivan Award C. Hampden J. Mills Award
B. T. Jones Football All-American D. All of the above.