

Trig Review Quiz 0-4 E

- _____1. Simplify $(2n^3)^3$
A. $6n^6$ B. $6n^9$ C. $8n^6$ D. $8n^9$
- _____2. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____3. Factor $8n^3 + 125$
A. $(2n + 5)(4n^2 + 10n + 25)$ B. $(2n - 5)(4n^2 + 10n + 25)$
C. $(2n + 5)(4n^2 - 10n + 25)$ D. $(2n - 5)(8n^2 + 10n + 25)$
- _____4. 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. $6x - 7$
- _____5. $\sum_{n=-2}^1 2n - 1$?
A. -10 B. -9 C. -8 D. -6
- _____6. What is the distance from $(n, 3)$ to $(n + 2, 7)$?
A. $2\sqrt{5}$ B. $5\sqrt{2}$ C. $5\sqrt{3}$ D. $3\sqrt{2}$
- _____7. What is the value of y in System $\begin{cases} 2x + 3y = 8 \\ 4x + 2y = 12 \end{cases}$?
A. $y = 1$ B. $y = 2$ C. $y = 7$ D. None of the above
- _____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. Which equation below is not in standard form?
A. $3x - y = 5$ B. $4x + y = -3$ C. $-2x + y = 9$ D. $x - y = -1$