

Trig Review Quiz 22

Name: _____

- _____1. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____2. 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. $(2n - 5)(8n^2 + 10n + 25)$
- _____3. 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. $6x - 7$
- _____4. $\sum_{n=-2}^1 2n - 1$?
A. -10 B. -9 C. -8 D. -6
- _____5. What is the distance from $(n, 3)$ to $(n + 2, 7)$?
A. $2\sqrt{5}$ B. $5\sqrt{2}$ C. $5\sqrt{3}$ D. $3\sqrt{2}$
- _____6. 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. $-5x - y = -6$
- _____7. 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
- _____8. Simplify $(a^{-3}b^{-2})^{-2}$
A. $\frac{-1}{a^6b^4}$ B. $\frac{a^6}{b^4}$ C. $\frac{1}{a^6b^4}$ D. a^6b^4
- _____9. What is the value of y in $\begin{cases} 4x - 2y = 6 \\ 3x + y = 7 \end{cases}$?
A. $y = 1$ B. $y = 4$ C. $y = 2$ D. None of the above
- _____10. In interval notation, what is $y > 2$?
A. $(-\infty, 2)$ B. $(-\infty, 2]$ C. $(2, \infty)$ D. $[2, \infty)$