

Trig Review Quiz 0-3 C

- _____1. Simplify $(2n^3 + 5n)(4n^3 + 2n)$
A. $8n^6 + 24n^4 + 10n^2$ B. $8n^9 + 24n^4 + 10n^2$
C. $8n^6 + 20n^3 + 10n$ D. $8n^9 + 24n^3 + 10n^2$
- _____2. Simplify $\frac{4 \pm \sqrt{-40}}{2}$
A. $2 \pm i\sqrt{10}$ B. $2 \pm 2i\sqrt{10}$ C. $2 \pm i\sqrt{20}$ D. $2 \pm 2i$
- _____3. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____4. Simplify $\frac{n^2 - 16}{n^2 + n - 20}$
A. $\frac{n-4}{n-5}$ B. $\frac{n+4}{n-5}$ C. $\frac{n+4}{n+5}$ D. Doesn't simplify
- _____5. Factor $n^3 + 8$
A. $(n + 2)(n^2 + 2n + 4)$ B. $(n + 2)(n^2 - 2n + 4)$
C. $(n - 4)(n^2 + 4n + 2)$ D. $(n + 4)(n^2 - 4n + 2)$
- _____6. Factor $3n^3 + 12n^2 + 2n + 8$
A. $(n + 2)(3n^2 + 4)$ B. $(3n + 4)(n^2 + 2)$
C. $(3n + 2)(n^2 + 4)$ D. $(n + 4)(3n^2 + 2)$
- _____7. What is the domain of $f(x) = \frac{x^3}{x-3}$?
A. $x \neq 3$ B. $x > 3$ C. $x \geq 3$ D. None of the above
- _____8. What is the slope from $(n, 6)$ to $(n + 2, 7)$?
A. 1 B. $\frac{1}{2}$ C. 0 D. 2
- _____9. What is the distance from $(-3, -2)$ to $(1, -6)$?
A. $4\sqrt{2}$ B. $3\sqrt{2}$ C. $2\sqrt{3}$ D. $2\sqrt{2}$
- _____10. Which is the equation of the line with a slope of 4 and that goes through $(2, 5)$?
A. $y = -4x - 3$ B. $y = 4x - 3$ C. $y = 4x + 3$ D. $y = -4x + 3$