

Trig Review Quiz 0-3 E

- _____1. Simplify $(x + 1)(x - 1)(x + 2)(x - 2)$
A. $x^4 - 5x^2 + 4$ B. $x^4 - 3x^2 + 4$ C. $x^4 - 6x^2 + 4$ D. None of the above
- _____2. Simplify $(2n^3y^4)^2 + n(n^5)y^8$
A. $5n^6y^8$ B. $3n^6y^8$ C. $5n^3y^4$ D. $8n^{12}y^{16}$
- _____3. What is the slope from $(n, 6)$ to $(n + 2, 7)$?
A. 1 B. $\frac{1}{2}$ C. 0 D. 2
- _____4. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$
- _____5. 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. $2 \pm 2i$
- _____6. What is the distance from $(-3, -2)$ to $(1, -6)$?
A. $4\sqrt{2}$ B. $3\sqrt{2}$ C. $2\sqrt{3}$ D. $2\sqrt{2}$
- _____7. 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. $y = -4x + 3$
- _____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. Factor $n^3 + 2n - n^2 - 2$
A. $(n^2 - 1)(n + 2)$ B. $(n^2 + 2)(n - 1)$
C. $(n^2 + 1)(n - 2)$ D. $(n^2 - 2)(n + 1)$
- _____10. 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. $(2n - 5)(8n^2 + 10n + 25)$