

Trig Review Quiz 4

Name _____

- _____1. Simplify $(x - 3)(x + 3)$
A. $x^2 + 9$ B. $x^2 + 6x - 9$ C. $x^2 - 9$ D. $x^2 - 6x - 9$
- _____2. 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. $8n^9 + 24n^3 + 10n^2$
- _____3. Simplify $(5n^5)^2$
A. $10n^{10}$ B. $10n^{25}$ C. $25n^{10}$ D. $25n^{25}$
- _____4. $(n + 10)^2$
A. $n^2 + 20$ B. $n^2 + 100$ C. $n^2 + 10n + 100$ D. $n^2 + 20n + 100$
- _____5. Simplify $\sqrt[4]{a^4b^4c^{21}}$
A. $abc^2\sqrt[4]{abc}$ B. $abc^4\sqrt[4]{c^5}$ C. $abc^5\sqrt[4]{c}$ D. $ab^2c^4\sqrt[4]{c^5}$
- _____6. Solve for n: $3n - 6 - 2(n - 4) = 10$
A. $n = -4$ B. $n = 8$ C. $n = -2$ D. $n = 12$
- _____7. Simplify $\sqrt{200}$
A. $10\sqrt{2}$ B. $10\sqrt{4}$ C. $2\sqrt{10}$ D. $4\sqrt{10}$
- _____8. Simplify $\sqrt[3]{16x^4y^8}$
A. $4xy^2\sqrt[3]{2xy^2}$ B. $2xy\sqrt[3]{2xy^2}$ C. $2xy^2\sqrt[3]{2xy^2}$ D. None of the above
- _____9. Of the expressions below, which is an example of the difference of squares?
A. $(x + 10)(x + 10)$ C. $(x - 5)(x - 5)$
B. $(x^2 + 1)(x^2 - 3)$ D. $(x + 4)(x - 4)$

_____ 10. Factor $6n^2 + 17n + 10$