

Trig Review Quiz 8

Name: _____

____1. Simplify $(n + 5)^2$
 A. $n^2 + 25$ B. $n^2 + 10$ C. $n^2 + 10n + 25$ D. $n^2 + 10n + 10$

____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 $\sqrt[3]{x^4y^{10}}$
 A. $xy^4\sqrt[3]{xy}$ B. $xy^3\sqrt[3]{xy^2}$ C. $xy^3\sqrt[3]{xy}$ D. $xy\sqrt[3]{y}$

____4. Solve for n: $8n - (2n - 3) = 2 - (9 - 4n)$
 A. $n = -5$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$

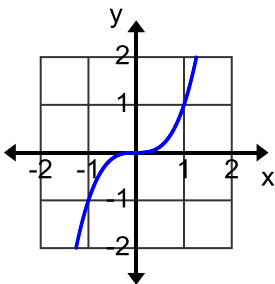
____5. The interval notation for $y > 5$ is
 A. $(-\infty, 5)$ B. $(-\infty, 5]$ C. $(5, \infty)$ D. $[5, \infty)$

____6. 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

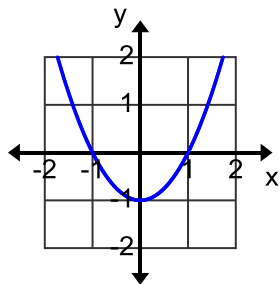
____7. Of the expressions below, which is an example of the difference of squares?
 A. $(x + 10)(x + 10)$ C. $(x - 5)(x - 5)$
 B. $(x^2 + 1)(x^2 - 3)$ D. $(x + 4)(x - 4)$

____8. Simplify $\frac{n^2 + 9n - 10}{n^2 - 3n - 4}$ and don't worry about what n cannot be.
 A. $\frac{n + 10}{n + 4}$ B. $\frac{n + 10}{n - 4}$ C. $\frac{n + 6n - 6}{1}$ D. Doesn't simplify

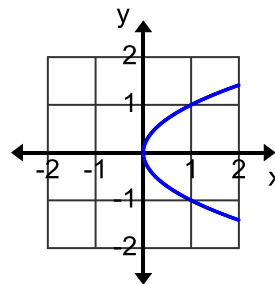
____9. Which graph below is not a function?



A.



B.



C.

____10. What is the domain of $f(x) = x^3 - 8$?
 A. $x \neq 2$ B. \mathbb{R} C. $x \geq 2$ D. $x > 2$