Trig Review Quiz 0-2 E

Name: _____

_____ 1. $(10a^3n^5)(2a^3n^5)$

A. $20a^6n^{25}$ B. $20a^9n^{25}$ C. $20a^9n^{10}$ D. $20a^6n^{10}$

_____ 2. Factor $16a^4b^2 + 20ab^5$

A. $ab^2(16a^3 + 20b^3)$ B. $ab(16a^3b + 20b^4)$

C. $4ab^2(4a^3 + 5b^3)$ D. None of the above

_____ 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. What is the domain of f(x) = $\sqrt{5x-10}$

A. $\mathbb{R}: x \neq 2$ B. $\mathbb{R}: x > 2$ C. $\mathbb{R}: x \geq 2$ D. $\mathbb{R}: x \leq 2$

_____ 5. $x+3\overline{)5x^2+19x+12}$

A. 5x + 3 B. 5x - 4 C. 5x + $\frac{4}{x+3}$ D. None of the above

_____6. $\left(\frac{c^4a^{-1}}{b^8}\right)^{-2}$

A. $\frac{a^2b^{16}}{c^8}$ B. $\frac{c^8b^{16}}{a^2}$ C. $\frac{a^2c^8}{b^{16}}$ D. None of the above

_____ 7. (x – 3) (x + 3) (x + 3)

A. $x^3 - 3x^2 - 9x - 27$ B. $x^3 + 3x^2 + 9x - 27$

C. $x^3 + 3x^2 - 9x - 27$ D. $x^3 + 3x^2 - 9x - 27$

_____ 8. **Solve** by factoring: $2x^2 + 19x + 9 = 0$

A. x = -9 or x = - ½ B. x = 9 or x = - ½

C. x = -9 or x = ½ D. x = 9 or x = ½

_____ 9. $1000y^3 - x^3$

A. $(10y - x)(100y^2 + 10xy + x^2)$ B. $(10y + x)(100y^2 + 10xy + x^2)$

C. $(10y - x)(100y^2 - 10xy + x^2)$ D. $(10y + x)(100y^2 - 10xy + x^2)$

_____ 10. If f(x) = x – 1 and g(x) = 4x, what is f(g(x))?

A. $4x^2 - 1$ B. 4x – 1 C. 4x – 4 D. $4x^2 - 4$