

Trig Review Quiz 6

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 $\sqrt[3]{x^4 y^{10}}$
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 by factoring: $x^2 - x - 20 = 0$
A. $x = -5$ or $x = 4$ B. $x = 5$ or $x = -4$
C. $x = 5$ or $x = 4$ D. $x = -5$ or $x = -4$

_____5. Solve for n: $4(2n + 5) + 2(3n + 5) = 10n + 22$
A. $n = -4$ B. $n = \frac{1}{2}$ C. $n = -2$ D. $n = 2$

_____6. Simplify $\frac{9 \pm \sqrt{18}}{3}$
A. $3 \pm i\sqrt{3}$ B. $3 \pm i\sqrt{2}$ C. $3 \pm \sqrt{3}$ D. $3 \pm \sqrt{2}$

_____7. Simplify $\left(\frac{2a^3}{5b^2}\right)^{-2}$
A. $\frac{25b^4}{4a^6}$ B. $\frac{4b^4}{25a^6}$ C. $\frac{25a^6}{4b^4}$ D. $\frac{25a^6b^4}{4}$

_____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 $n^3 + 2n - n^2 - 2$

_____10. Factor $8n^3 + 125$