Trig Review Quiz 0-1 B

Name: _____

_____1. $(x + 2)(x + 2)(x + 2)$

A. $x^3 + 8$ B. $x^3 + 6x^2 + 4x + 12$

C. $x^3 + 6x^2 + 12x + 8$ D. $x^3 + 8x^2 + 12x + 8$

_____2. $2(2n – 4) – (6n – 2)$

A. $-2n – 10$ B. $-2n – 6$ C. $2n – 10$ D. None of the above

_____3. $(n + 5)^2$

A. $n^2 + 25$ B. $n^2 + 10n + 10$ C. $n^2 + 10n + 25$ D. $n^2 + 10$

_____4. $(2n^3)^3$

A. $6n^6$ B. $6n^9$ C. $8n^6$ D. $8n^9$

_____5. Simplify $\sqrt{20a^3y^{10}}$

A. $2ay^5\sqrt{5ay}$ B. $5ay^5\sqrt{2a}$ C. $2ay^5\sqrt{5a}$ D. $5ay^5\sqrt{2ay}$

_____6. $(a^4n^3x^6)(a^2n^3x^6)$

A. $a^8n^6x^{12}$ B. $a^6n^9x^{12}$ C. $a^6n^6x^{36}$ D. $a^6n^6x^{12}$

_____7. Simplify $\dfrac{n^2+4n+3}{n^2+7n+12}$

A. $\dfrac{n+3}{n+4}$ B. $\dfrac{1}{n+4}$ C. $\dfrac{1}{3n+4}$ D. $\dfrac{n+1}{n+4}$

_____8. Perform the following division $n-2\overline{)n^2+3n-1}$

A. $n+5+\dfrac{-11}{n-2}$ B. $n+5+\dfrac{9}{n-2}$ C. $n+1+\dfrac{1}{n-2}$ D. $n+1+\dfrac{-3}{n-2}$

_____9. Simplify $\left(\dfrac{n^2y^{-2}}{a^{-4}}\right)^2$

A. $\dfrac{n^4a^8}{y^4}$ B. $\dfrac{n^4y^4}{a^8}$ C. $\dfrac{n^4a^{16}}{y^4}$ D. $\dfrac{n^4y^4}{a^{16}}$

_____10. Simplify $\left(2a^{-3}\right)^{-2}$

A. $\dfrac{4}{a^6}$ B. $4a^6$ C. $\dfrac{a^6}{4}$ D. $\dfrac{a^5}{4}$