Trig Review Quiz 0-1 E

_____ 1. $(a^4n^3x^6)(a^2n^3x^6)$

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

_____ 2. Solve for n: $4(2n-3)+2(2n-1)=10$

A. n = -4 B. $n=\frac{1}{2}$ C. n = -2 D. n = 2

_____3. Simplify $\left(\frac{n^2y^{-2}}{a^{-4}}\right)^2$

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

_____ 4. Simplify $\left(2a^{-3}\right)^{-2}$

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

_____5. $x+2\overline{)4x^2+15x+14}$

A. 4x B. 4x + 7 C. $4x+\frac{4}{x+2}$ D. $4x+6+\frac{4}{x+2}$

_____6. Simplify $(3n^2y^4)^2 + n(n^4)y^3y^5$

A. $10n^4y^8$ B. $10n^5y^8$ C. $7n^5y^8$ D. None of the above

_____ 7. Simplify $\frac{n^2+4n+3}{n^2+7n+12}$

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

_____8. **Solve** by factoring: $9x^2 + 21x + 10 = 0$

A. $x=\frac{2}{3}$ or $x=-1\frac{2}{3}$ B. $x=-\frac{2}{3}$ or $x=-1\frac{2}{3}$

C. $x=\frac{2}{3}$ or $x=1\frac{2}{3}$ D. $x=-\frac{2}{3}$ or $x=1\frac{2}{3}$

_____ 9. y^3-8

A. $(y-2)(y^2+2y+4)$ B. $(y+2)(y^2-2y+4)$

C. $(y+2)(y^2+2y+4)$ D. $(y-2)(y^2-2y+4)$

_____ 10. Simplify $\sqrt{-80a^2}$

A. $4a\sqrt{5}$ B. $2ai\sqrt{10}$ C. $4ai\sqrt{5}$ D. None of the above