Trig Review Quiz 0-1 F

_____1. Simplify (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. Simplify $\sqrt{20a^3y^{10}}$

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

_____3. **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

_____4. Solve for n: 4(2n – 3) + 2(2n – 1) = 10

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

_____5. Simplify $\frac{a^4b^{10}c^5}{ab^8c^7}$

A. $\frac{a^3b^2}{c}$ B. $\frac{ab^2}{c^2}$ C. $\frac{a^3}{b^2c^2}$ D. None of the above

_____6. Simplify $\frac{n^2+9n-10}{n^2-3n-4}$

A. $\frac{n+10}{n+4}$ B. $\frac{n+10}{n-4}$ C. $\frac{n+6n-6}{1}$ D. Doesn't simplify

_____7. Perform the following division $n-2\overline{)n^2+3n-1}$

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

_____8. $\left(\frac{2}{3}\right)^{-3}$ **NO CALCULATOR ALLOWED!**

A. $\frac{6}{27}$ B. $\frac{8}{27}$ C. $\frac{27}{8}$ D. $-\frac{8}{27}$

_____9. 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

_____10. Factor $y^5 + 3y^3 + 4y^2 + 12$

A. $(y^2 + 4)(y^3 + 3)$ B. $(y^2 + 3)(y^3 + 4)$ C. $(y^4 + 3)(y + 4)$ D. $(y + 3)(y^5 + 4)$