Trig Review Quiz 0-6 B

_____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 $\sqrt[3]{x^4y^{10}}$

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 slope of the line tangent to the graph of $f(x) = 2x^4 – x^2 + 6$ at the point (1, 7)?

A. 4 B. 6 C. 112 D. None of the above

_____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. Which is the equation that is parallel to $y = 5x – 2$ and goes through (1, 1)?

A. $5x – y = 4$ B. $5x – 2y = 3$ C. $5x + y = 6$ D. $-5x – y = -6$

_____7. Give a third point that must be on a parabola that has a vertex = (4, 7) and point = (7, 10)?

A. (1, 7) B. (10, 10) C. (10, 7) D. (1, 10)

_____8. Simplify $\left(a^{-3}b^{-2}\right)^{-2}$

A. $\frac{-1}{a^6b^4}$ B. $\frac{a^6}{b^4}$ C. $\frac{1}{a^6b^4}$ D. a^6b^4

_____9. What is the value of y in $\begin{cases} 4x - 2y = 6 \\ 3x + y = 7 \end{cases}$

A. y = 1 B. y = 4 C. y = 2 D. None of the above

_____10. Evaluate $\sum_{n=-1}^{1} 2n - 1$

A. -4 B. -3 C. -2 D. 0