Trig Review Quiz 0-7 E

_____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. $8n^9 + 24n^3 + 10n^2$

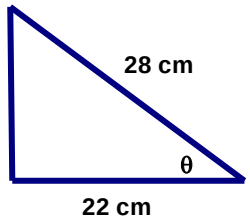
_____3. Simplify $\sqrt[3]{x^4y^{10}}$

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. $|x-1| > 5$

A. x > 6 or x <-4 B. -4 < x < 6

C. x > -4 or x < 6 D. -4 > x > 6



_____5. What is the closest value of x in the right triangle above?

A. 38° B. 41° C. 48° D. 52°

_____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. What is the midpoint of (1, 3n) and (7, n + 6)

A. (4, 2n) B. (4, 2n + 3) C. (4, n + 3) D. None of the above

_____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