Trig Review Quiz 25

Name _____

_____1. 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. $n+1+\frac{-3}{n-2}$

_____2. 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. $\frac{n^4a^8}{y^4}$

_____3. What is the interval notation for x > 3?

A. $(-\infty,3)$ B. $(3,\infty)$ C. $(-\infty,3]$ D. $[3,\infty)$

_____4. What is the domain of f(x) = $\sqrt{x-3}$?

A. $x \neq 3$ B. $x > 3$ C. $x \geq 3$ D. None of the above

_____5. What is the horizontal asymptote of $y=\frac{4x^3+5}{4x^3+1}$?

A. y = 0 B. $y=\frac{1}{2}$ C. y = 1 D. No horizontal asymptote

_____6. When I was young with a great set of hair, I had 10 girlfriends. If I wanted to pick 3 of them to come with me to the disco club, how many different options did I have to choose from?

A. 120 B. 720 C. 1040 D. You had hair?

_____7. $|2x+3|<9$

A. x > 3 or x <-6 B. -6 < x < 3
C. x > -6 or x < 3 D. None of the above

_____8. What is the derivative of $f(x) = 2x^6 + 4x^2 - 3x + 3$?

A. $12x^7 + 8x^3 - 3x^2 + 3x$ B. $12x^5 + 4x - 3$
C. $12x^5 + 8x - 3$ D. None of the above

_____9. What is the slope of the line tangent to the graph of $f(x) = x^3 - x + 3$ at the point (2, 9)?

A. 10 B. 11 C. 12 D. 14

_____10. If the discriminant value in the quadratic equation comes up to be a negative number, how many solutions exist?

A. 0 B. 1 C. 2 D. 3