

Trig Review Quiz 3

Name _____

- _____1. Simplify $(x+1)(x^2+2x+3)$ [1-1B]
A. x^3+x^2+2x+3 B. x^3+3x^2+5x+3
C. x^3+x^2+5x+3 D. x^3+3x^2+2x+3
- _____2. What is the horizontal asymptote of $y = \frac{4x^3+5}{4x^2+1}$? [6-3A]
A. $y=0$ B. $y = \frac{1}{2}$ C. $y=1$ D. No horizontal asymptote
- _____3. What is the value of y in $\begin{cases} y = -2x + 5 \\ x + 2y = 4 \end{cases}$ [5-1]
- _____4. Factor $3n^3 + 12n^2 + 2n + 8$ [2-3]
A. $(n+2)(3n^2+4)$ B. $(3n+4)(n^2+2)$
C. $(3n+2)(n^2+4)$ D. $(n+4)(3n^2+2)$
- _____5. Which equation below is not in standard form? [4-3]
A. $3x - y = 5$ C. $-2x + y = 9$
B. $4x + y = -3$ D. $x - y = -1$
- _____6. What is the domain of $f(x) = \sqrt{-2x+4}$? [3-2B]
A. $x \neq 2$ B. $x \leq 2$ C. $x \geq 2$ D. All Real Numbers
- _____7. In interval notation, what is $x > 3$? [3-3B]
A. $(3, \infty)$ B. $[3, \infty)$ C. $(-\infty, 3)$ D. $(-\infty, 3]$
- _____8. If A is a 4 x 5 matrix, B a 4 x 3 matrix, and C a 3 x 5 matrix, what matrices could be multiplied? [5-4]
A. A and B B. A and C C. B and C D. All of them could be
- _____9. $|2x+3| > 9$ [6-4]
A. $x > 3$ or $x < -6$ B. $-6 < x < 3$ C. $x > -6$ or $x < 3$ D. None of the above
- _____10. What age do you believe is the perfect age in life?
In other words, if you could pick one age and stay that age forever, what age would it be?