

Trig Review Quiz 0-4 C

- _____1. If A is a 4×5 matrix, B a 4×3 matrix, and C a 3×5 matrix, what matrices could be multiplied?
A. A and B B. A and C C. B and C D. All of them could be
- _____2. Which is the equation that is perpendicular to $y = -2x + 4$ and goes through $(4, 1)$?
A. $y = \frac{1}{2}x + 1$ B. $y = 2x - 7$ C. $y = -\frac{1}{2}x + 1$ D. $y = \frac{1}{2}x - 1$
- _____3. Which equation below is not in standard form?
A. $3x - y = 5$ B. $4x + y = -3$ C. $-2x + y = 9$ D. $x - y = -1$
- _____4. What is the domain of $f(x) = \frac{x^3}{x-3}$?
A. $x \neq 3$ B. $x > 3$ C. $x \geq 3$ D. None of the above
- _____5. What is the inverse of $f(x) = x^2 - 5$?
A. $y = \pm\sqrt{x+5}$ B. $y = \pm\sqrt{x-5}$ C. $y = \pm\sqrt{5x}$ D. $y = 5x - 5$
- _____6. $[1 \ -3 \ 0] \cdot \begin{bmatrix} 2 \\ 1 \\ 5 \end{bmatrix}$ **NO CALCULATOR ALLOWED!**
A. $[2]$ B. $[0]$ C. $[-1]$ D. Not possible
- _____7. What is the horizontal asymptote of $y = \frac{3x^5 + 2}{4x^2 + 2x + 1}$?
A. None exist B. $y = 0$ C. $y = \frac{3}{4}$ D. $y = 3$
- _____8. What is the slope from $(n, 6)$ to $(n + 2, 7)$?
A. 1 B. $\frac{1}{2}$ C. 0 D. 2
- _____9. What is the distance from $(-3, -2)$ to $(1, -6)$?
A. $4\sqrt{2}$ B. $3\sqrt{2}$ C. $2\sqrt{3}$ D. $2\sqrt{2}$
- _____10. Which is the equation of the line with a slope of 4 and that goes through $(2, 5)$?
A. $y = -4x - 3$ B. $y = 4x - 3$ C. $y = 4x + 3$ D. $y = -4x + 3$