Trig Review Quiz 1 (2019-20)

Name: _____

_____1. If A is a 2 x 5 matrix and B is a 5 x 4 matrix, what size will AB be? [5-4]

_____ 2. What is the domain of f(x) = $\frac{4x-7}{x+6}$ [3-2B]

A. $\mathbb{R}: x \neq 6$ B. $\mathbb{R}: x > 6$ C. $\mathbb{R}: x < 6$ D. $\mathbb{R}: x \neq -6$

_____3. Simplify: $\frac{120!}{119!}$ [4-4B]

A. 14,280 B. 120 C. 15,880 D. 118

_____4. What is the value of y in this system of equations: $\begin{cases} y = 2x - 1 \\ x + 3y = 32 \end{cases}$ [5-1]

A. y = 3 B. y = 9 C. y = 11 D. y = 14

_____5. $\sum_{n=-1}^{3} 2 - n$? [4-4A]

A. 3 B. 4 C. 5 D. 9

_____6. From 10 students, I must pick the nicest student, the funniest student, and finally the most humble. How many options exist, knowing that no student can get two awards? [4-5]

A. 120 B. 540 C. 720 D. 1140

_____7. If f(x) = 2x and g(x) = 5x + 10, what is f(g(x))? [3-4]

A. 10x + 10 B. 10x + 20 C. 20x + 10 D. 10x – 10

_____8. Simplify $\left(\frac{n^2 y^{-2}}{a^{-4}}\right)^2$ [1-5]

A. $\frac{n^4 y^4}{a^{16}}$ B. $\frac{n^4 y^4}{a^8}$ C. $\frac{n^4 a^{16}}{y^4}$ D. $\frac{n^4 a^8}{y^4}$

_____ 9. What is the midpoint of (3, n) and (7, n + 6) [4-1B]

A. (5, 3n) B. (5, 2n + 1) C. (5, n + 3) D. (5, 2n + 6)

_____10. (x + 2) (x – 2) [1-1B]

A. $x^2 - 4$ B. x^2

C. $x^2 - 2$ D. None of the above