

# Trig Review Quiz 1 (2019-20)

Name: \_\_\_\_\_

- \_\_\_\_\_ 1. If A is a  $4 \times 5$  matrix and B is a  $5 \times 2$  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.  $\mathbb{R} : x \geq 6$
- \_\_\_\_\_ 3. Simplify:  $\frac{120!}{118!}$  [4-4B]  
A. 14,280      B. 120      C. 15,880      D. 118
- \_\_\_\_\_ 4. What is the value of y in this system of equations:  $\begin{cases} y = 2x - 1 \\ x + 3y = 11 \end{cases}$  [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  $g(f(x))$ ? [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