Quiz 1

Name _____

Math 173A, 3PM

Please justify all your answers   October 3, 2019

Please also write your full name on the back

1. Fill in the blank or answer with "True" or "False".

    (a) True or false? If an integer a divides the product bc, with b and c integers, then a must divide a or b. _____

    (b) Two integers a and b are said to be _____ if their greatest common divisor is 1.

    (c) There are _____ possible simple substitution ciphers on an alphabet with n symbols.

    (d) The Caesar cipher on an alphabet with n symbols has _____ keys.

2. Compute the greatest common divisor of 4883 and 4369 using the Euclidean algorithm.