

CSc 245 Discrete Structures - Summer 2020

Quiz #5

Due: July 21st, 2020 by 11:59 pm (MST)

1. (6 points) Given the function $F : \{(1, 1), (2, 3), (3, 2), (4, 1), (5, 2)\}$ from $\{1, 2, 3, 4, 5\}$ to $\{1, 2, 3\}$

(a) If we add another pair to F , can it still be a function? If yes, give such a pair.

(b) Is this function injective or surjective (or both)?

(c) Why can't the relation be bijective?

2. (4 points) Integers

(a) What are the factors of 68?

(b) What is the prime factorization of 68?

(c) What are the LCM and GCD of 68 and 42?