

Quiz 1

True/False - No explanation needed. (2pts)

1. Shuffle the order of stages (or subprocesses) in a counting process does effect the final result when the subprocesses are independent of each other. True/False
2. The union of n subsets is the addition of all individuals subset subtracting their overlapping parts. True/False

Problems - Need justification. No justification means **zero**!

1. How many one-to-one (injective) functions are there from the set $\{1, 2, 3\}$ to the set $\{1, 2, 3, 4, 5\}$? (5pts)
2. How many 6-element RNA sequences contain at least one G? (5pts)
Hint: Each element can be either A, C, G, U.