Name (Print)	Math 3670 QUP Summer 2022
Mock Test	2022-05-23
Honor Code Certification	
I certify that I have abided by the rules of the Georgia Tech honor code for student conduct on exams and by the specific rules on reference materials for this exam, and that I have neither given nor received assistance during this examination. I certify that I have read this statement and understand it.	
Signature:	Student-ID, last 3 digits:
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This mock test will not be counted towards your final grade.	

1. A metal rod with non-uniform density is placed on the real line. It starts at x=0 and ends at x=3. It is known that the linear mass density of the metal rod is given by the function $\rho(x)=x^2, 0\leq x\leq 3$. Determine the mass of the metal rod from x=2 to x=3.

2. In how many ways can we split 2 people into two groups, with 1 person in each group? What if we name one group the red group and the other the blue group?