Name:	Student ID:
Week8-template	Math 563, Fall 2022
Let $T_1, T_2, \dots T_n$ be non-neg	gative, independent continuous random variables and let
	$V = \min(T_1, T_2, \dots, T_n)$
be their minimum. Let $f_j(t) = 1 - F_j$ be the tail probability All answers must be express Find the tail probability $\mathbb{P}(V)$	
THE SCRATCH AREA	
	THE ANSWER
Find the probability function	n of $I$ , i.e., $\mathbb{P}(I = i)$ .
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Q 1.

Q 1.1.

Q 1.2.

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**Q 1.4.** Use the Bayes formula for conditional expectations to find  $\mathbb{P}(I=i|V=t)$ . Explain your reasoning, paying attention to proper notation.

