Claim amounts for wind damage to insured homes are independent random variables with common density function

\[
f(x) = \begin{cases} 
\frac{3}{x^4} & \text{for } x > 1 \\
0 & \text{otherwise}
\end{cases}
\]

where \( x \) is the amount of a claim in thousands.

What is the expected value of the largest of the three claims?

(A) 2025
(B) 2700
(C) 3232
(D) 3375
(E) 4500