Math 365 - Quiz 3

Name and Student ID:

Question: Find the largest $n \in \mathbb{Z}$ such that $288^n \mid 117 \cdot 118 \cdot 119 \cdots 289$.

Math 365 - Quiz 3

Name and Student ID:

Question: Find the largest $n \in \mathbb{Z}$ such that $800^n \mid 148 \cdot 149 \cdot 150 \cdots 518$.

Math 365 - Quiz 3

Name and Student ID:

Question: Find the largest $n \in \mathbb{Z}$ such that $675^n \, | \, 173 \cdot 174 \cdot 175 \cdots 638$.

Math 365 - Quiz 3

Name and Student ID:

Question: Find the largest $n \in \mathbb{Z}$ such that $784^n \mid 207 \cdot 208 \cdot 209 \cdots 784$.

Math 365 - Quiz 3

Name and Student ID:

Question: Find the largest $n \in \mathbb{Z}$ such that $60^n \mid 195 \cdot 196 \cdot 197 \cdots 256$.

Math 365 - Quiz 3

Name and Student ID:

Question: Find the largest $n \in \mathbb{Z}$ such that $270^n \mid 183 \cdot 184 \cdot 185 \cdots 365$.