



Problem of the Week

Problem C

What Remains?

3^5 means $3 \times 3 \times 3 \times 3 \times 3$ and equals 243 when expressed as an integer. When 3^5 is divided by 5, the remainder is 3.

When the integer 3^{2019} is divided by 5, what is the remainder?

$$\begin{array}{r} \text{QUOTIENT} \\ \hline 5 \overline{) 3^{2019}} \\ \text{REMAINDER ?} \end{array}$$

