#190, pg. 179
Difficulty Level: 600-700
Topics: Functions & Sequences; Number Properties

Solution

Note that the units digit of 13^4 is the same as that of 3^4 since in multiplication, the units digit of the result depends only on the units digit of each factor. 3^4 has units digit of 1.

Likewise, the units digit of 17^2 is the same as that of 7^2 and is 9.

The units digit of 29^3 is the same as that of 9^3 and is 9.

Finally, the units digit of $13^4 \cdot 17^2 \cdot 29^3$ is equal to the units digit of $1 \cdot 9 \cdot 9$, which is 1.

The correct answer is E