

## Answer on Question #65969 – Math – Calculus

### Question

Compute  $5(98)$  using Binomial theorem

### Solution

$$\begin{aligned} 98^5 &= (100 - 2)^5 = 100^5 - 5 * 100^4 * 2 + 10 * 100^3 * 2^2 - 10 * 100^2 * 2^3 + \\ &+ 5 * 100 * 2^4 - 2^5 = 10000000000 - 1000000000 + 40000000 - \\ &- 800000 + 8000 - 32 = 9039207968. \end{aligned}$$

**Answer:** 9039207968.