



9. The symbol \diamond is defined by $x \diamond y = x^y - y^x$. What is the value of $(2 \diamond 3) \diamond 4$?

A -3

B $-\frac{3}{4}$

C 0

D $\frac{3}{4}$

E 3

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9. D $(2 \diamond 3) \diamond 4 = (2^3 - 3^2) \diamond 4 = (-1) \diamond 4 = (-1)^4 - 4^{-1} = 1 - \frac{1}{4} = \frac{3}{4}$.