

[問題] 次の計算をなさい。

(1) 71×69

(2) $21 \times 57 + 21 \times 43$

(3) 497×503

(4) $65^2 - 35^2$

[解答]

(1) $71 \times 69 = (70+1) \times (70-1) = 70^2 - 1 = 4900 - 1 = 4899$

(2) $21 \times 57 + 21 \times 43 = 21 \times (57+43) = 21 \times 100 = 2100$

(3) $497 \times 503 = (500-3) \times (500+3) = 500^2 - 3^2 = 250000 - 9 = 249991$

(4) $65^2 - 35^2 = (65+35) \times (65-35) = 100 \times 30 = 3000$