

GIẢI BÀI TẬP 40 TRANG 23 SGK TOÁN 7 TẬP 1

Câu hỏi: Tính

a) $\left(\frac{3}{7} + \frac{1}{2}\right)^2$

b) $\left(\frac{3}{4} - \frac{5}{6}\right)^2$

c) $\frac{5^4 \cdot 20^4}{25^5 \cdot 4^5}$

d) $\left(\frac{-10}{3}\right)^5 \cdot \left(\frac{-6}{5}\right)^4$

Đáp Án:

a) $\left(\frac{3}{7} + \frac{1}{2}\right)^2 = \left(\frac{6+7}{14}\right)^2 = \left(\frac{13}{14}\right)^2 = \frac{169}{196}$

b) $\left(\frac{3}{4} - \frac{5}{6}\right)^2 = \left(\frac{9-10}{12}\right)^2 = \left(\frac{-1}{12}\right)^2 = \frac{1}{144}$

c) $\frac{5^4 \cdot 20^4}{25^5 \cdot 4^5} = \frac{(5 \cdot 20)^4}{(25 \cdot 4)^5} = \frac{100^4}{100^5} = 100^{4-5} = \frac{1}{100}$

d) $\left(\frac{-10}{3}\right)^5 \cdot \left(\frac{-6}{5}\right)^4 = \frac{-10^5 \cdot 6^4}{3^5 \cdot 5^4} = \frac{-(2 \cdot 5)^5 \cdot (3 \cdot 2)^4}{3^5 \cdot 5^4} = \frac{-29 \cdot 5}{3} = -853\frac{1}{3}$